The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY
JOHN AUERBACH
COMMISSIONER

3/14/2012

Andrius Knasas
Assistant District Attorney
Suffolk County District Attorney's Office

Dear ADA Knasas

Enclosed is the information you requested in regards to items # ███████████

    1. Curriculum Vitae for Hevis Lleshi and Kate Corbett

    2. Drug Analysis Laboratory Receipt.

    3. Control Cards with analytical results for samples # ████████

    4. Analysis sheets with custodial chemist's hand notations and test results.

    5. GC/Mass Spectral analytical data for samples # ████████

Hevis Lleshi was the custodial chemist and performed preliminary testing and net weight for these samples. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for these samples.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Ms. Hevis Lleshi
Chemist I
Drug Analysis Laboratory
Jamaica Plain, MA 02130
(617) 983-6627

Curriculum Vitae

Hevis Lleshi

Education

Boston University School of Medicine – Master of Science, Forensic Science
University of South Florida – Bachelor of Arts, Clinical Psychology

Related Coursework

Forensic Chemistry • Forensic Toxicology • Forensic Pathology • Forensic DNA Analysis
Organic / Analytical Chemistry • Forensic Biology • Biochemistry • Forensic Trace Evidence

Employment

March, 2011 – Present
Chemist I, Massachusetts Department of Public Health,
Drug Analysis Laboratory

- Appointed Assistant Analyst by Assistant Commissioner of Public Health, June, 2011
- Responsible for the identification of substances to determine violation of harmful and narcotic drug laws of the Commonwealth of Massachusetts
- Trained in the use of complex analytical instrumentation for the purpose of forensic drug analysis
- Notary Public

Additional Training and Laboratory Experience

- Completed ten-week training course conducted by Laboratory Senior Staff within the Department of Public Health, Drug Analysis Laboratory, 2011
- GC and GC/MS training with Restek, 2011
- Instrumental Forensic Chemistry/Toxicology Laboratory, Boston University, 2009
- Serology/Bloodstain Pattern Analysis Techniques, Boston University, 2009

Internship, MASSACHUSETTS STATE POLICE—MARINE SECTION, BOSTON, MA, 2009 – 2010

Associations

- American Academy of Forensic Sciences (AAFS)
- Boston University Forensic Science Society (BUFSS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003
MERRIMACK COLLEGE
Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative
Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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Employment

Chemist II State Laboratory Institute (March 2008-Present)
Massachusetts Department of Public Health
Drug Analysis Laboratory
➢ Responsible for the identification of substance and trafficking substances to
   determine violation of the Massachusetts drug laws
➢ Responsible for the identification of pharmaceuticals to determine violation of
   the Massachusetts drug laws
➢ Operate analytical instrumentation, microscopes and balances for forensic
   drug analysis

Chemist I State Laboratory Institute (2005-March 2008)
Massachusetts Department of Public Health
Drug Analysis Laboratory
➢ Responsible for the identification of substance to determine violation of the
   Massachusetts drug laws
➢ Operate analytical instrumentation for the purpose of performing forensic
   drug analysis
➢ Successfully completed an eight week training course in the analysis of drugs
   conducted by senior staff of the Department of Public Health, Drug Analysis
   Laboratory
➢ Appointed an assistant analyst for the Department of Public Health, Drug
   Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)
SENSOR TECHNOLOGIES, INC - Shrewsbury, MA
➢ Prepared chemistries used in making sensor beads
➢ Generated and examined sensors employing fluorescence spectroscopy
➢ Performed protein, dye and sugar assays using UV/VIS spectrophotometry
➢ Carried out titrations on ricin using fluorescence correlation spectroscopy
➢ Statistical analysis of experimental data

Intern (March 2003 – August 2003)
MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA
➢ Assisted in the gathering of case files to fulfill the National Institute of
   Justice's No Suspect Backlog Reduction Grant
➢ Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and
   Bomb/Arson Units

Boston Police DEPARTMENT

DRUG RECEIPT

CC # ███████████

BOOK #

PAGE #

DESTRUCTION #

District/Unit __YUST__

Name & Rank of Arresting Officer __McGrath__ ID# __91907__

DEFENDANT'S NAME	ADDRESS	CITY	STATE
████████████████	████████████	████████	███████

DESCRIPTION OF ITEMS SUBMITTED	GROSS QUANTITY	LAB USE ONLY	
		GROSS WEIGHT	ANALYSIS NUMBER
Heroin	1 P/B	2.25 g	██████████
Cocaine	1 P/B	2.32 g	██████████
Marijuana civil	2 P/B's		██████████
Suboxone	4 Pills	5.80 g	██████████
M/R civil	2 P/B		

To be completed by ECU personnel only

Name and Rank of Submitting Officer _____ ID# __9320__

Received by _____ Date __8-2-11__

ECU Control # _____

No. ███████████   Date Analyzed: 2/16/12

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: ████████████████████

Amount: Subst: SUB

No. Cont: 1   Cont: pb

Date Rec'd: 08/02/2011   No. Analyzed:

Gross Wt.:   2.25   Net Weight: 0.10g

                                   # Tests: 4
                                      • 2GMC

Prelim: Heroin (HU)   Findings: Heroin

No. ███████████   Date Analyzed: 2/16/12

City: Boston D.C.U. Police Dept.

Officer: P.O. Diana Lopez

Def: ████████████████████

Amount: Subst: SUB

No. Cont: 1   Cont: pb

Date Rec'd: 08/02/2011   No. Analyzed:

Gross Wt.:   2.32   Net Weight: 0.48g

                                   # Tests: 6
                                      • 2GMC

Prelim: Cocaine (HU)   Findings: Cocaine

No. ████████

City: Boston D.C.U. Police Dept.

Date Analyzed: 3/1/12

Officer: P.O. Diana Lopez

Def: ████████

Amount: ████████

No. Cont: 1   Cont: pb paper fold   ~~Subst. TAB~~

Date Rec'd: 08/02/2011

Gross Wt.: 5.80

No. Analyzed: 1

Net Weight: 1.54g (g/4)

Tests: 1

2CHC

Prelim: Buprenorphine (HCl)   Findings: Buprenorphine

DRUG POWDER ANALYSIS FORM

SAMPLE # ███████████ AGENCY _Boston_ ANALYST _HU_

No. of samples tested: _____ Evidence Wt. ___OK___

PHYSICAL DESCRIPTION:

Gross Wt ( ): _0.2293g_

Gross Wt ( ): _____

One pb containing beige powder. One piece of paper also included in evidence bag.

Pkg. Wt: _____

Net Wt: _0.1052g_

PRELIMINARY TESTS
Spot Tests

Cobalt
Thiocyanate ( ) _+ blue / green_

Marquis _+ purple_

Froehde's _+ purple_

Mecke's _+ green_

Microcrystalline Tests

Gold
Chloride _____

TLTA ( ) _____

OTHER TESTS

_____

_____

_____

PRELIMINARY TEST RESULTS

RESULTS _Heroin_

DATE _2/11/2012_

GC/MS CONFIRMATORY TEST

RESULTS _Heroin_

MS
OPERATOR _KAC_

DATE _2/16/2012_

Revised 7/2005

DRUG POWDER ANALYSIS FORM

SAMPLE # ███████████ AGENCY _Boston_ ANALYST _HL_

No. of samples tested: _____ Evidence Wt. _OK_

PHYSICAL DESCRIPTION:

Gross Wt ( ): _0.6076g_

Gross Wt ( ): _____

One pb containing
white powder, double
bagged.

Pkg. Wt: _____

Net Wt: _0.4846g_

PRELIMINARY TESTS
Spot Tests

Cobalt
Thiocyanate ( ) _+ blue_

Marquis _—_

Froehde's _—_

Mecke's _—_

Microcrystalline Tests

Gold
Chloride _+_

TLTA ( ) _+_

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS _Cocaine_

DATE _2/10/2012_

GC/MS CONFIRMATORY TEST

RESULTS _Cocaine_

MS
OPERATOR _KAC_

DATE _2/16/2012_

DRUG POWDER ANALYSIS FORM

SAMPLE # ▮▮▮▮▮▮▮ AGENCY _Boston_   ANALYST _HU_

No. of samples tested: _1_   Evidence Wt. _OK_

PHYSICAL DESCRIPTION: Gross Wt (4): _2.0515 g_

Gross Wt ( ): _____

Four orange hexagonal   Pkg. Wt: _____
imprinted tablets
in one paper fold.   Net Wt: _(4) 1.5471 g_
One tablet tested.

Micromedex:
Buprenorphine — 8 mg

(N8)   (+)

*Evidence bag <u>not</u> sealed on one side. (Initials side)

PRELIMINARY TESTS
Spot Tests

Cobalt
Thiocyanate ( ) _____

Marquis _____

Froehde's _____

Mecke's _____

Microcrystalline Tests

Gold
Chloride _____

TLTA ( ) _____

OTHER TESTS

_____

(A) + (L) +   ⁎

_____

_____

PRELIMINARY TEST RESULTS

RESULTS _Buprenorphine_

DATE _2/25/2012_

GC/MS CONFIRMATORY TEST

RESULTS _Buprenorphine_

MS
OPERATOR _KAC_

DATE _3/1/2012_

Drug Information
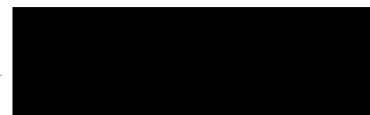
DRUG NAME: SUBOXONE TABLET

INGREDIENTS: BUPRENORPHINE -- 8 MG
NALOXONE -- 2 MG

Color: orange

Shape: Six-sided

Imprint: N8 Sword Logo

Form: Sublingual Tablet

Available-Container-Size: Bottle of 30

AAPCC Code: 200625 - Buprenorphine

NDC: 12496-1306-02

Regulatory Status: Schedule III

Availability: United States

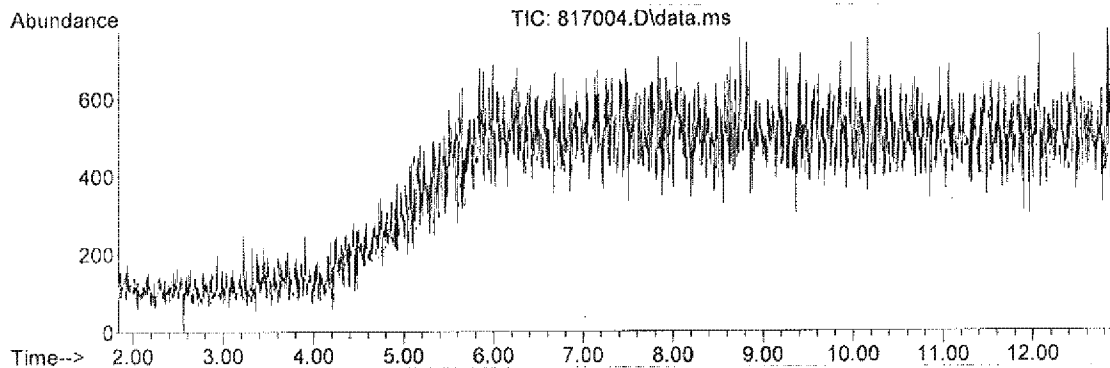**Product ID** 6370996

Contact: Reckitt Benckiser Pharmaceuticals
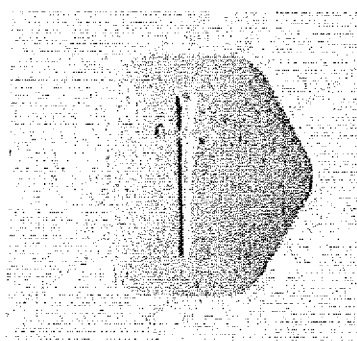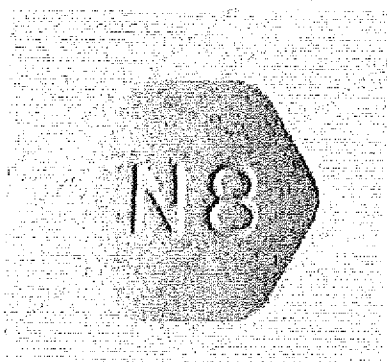
(handwritten: √KAC 3/6/12)

Information from Data File:
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File Name        : C:\msdchem\1\System7\02_14_12\817004.D
Operator         : KAC
Date Acquired    : 14 Feb 2012  14:50
Sample Name      : BLANK
Submitted by     :
Vial Number      : 1
AcquisitionMeth: DRUGS.M
Integrator       : RTE
```

Abundance   TIC: 817004.D\data.ms

Ret. Time   Area   Area %   Ratio %

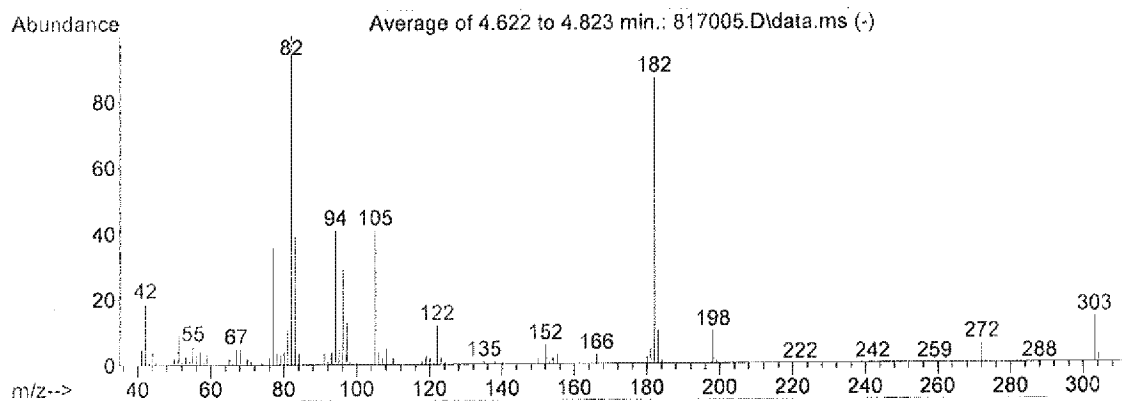***NO INTEGRATED PEAKS***

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817005.D
Operator   : KAC
Date Acquired : 14 Feb 2012 15:06
Sample Name   : COCAINE STD
Submitted by   :
Vial Number   :   5
AcquisitionMeth: DRUGS.M
Integrator   : RTE
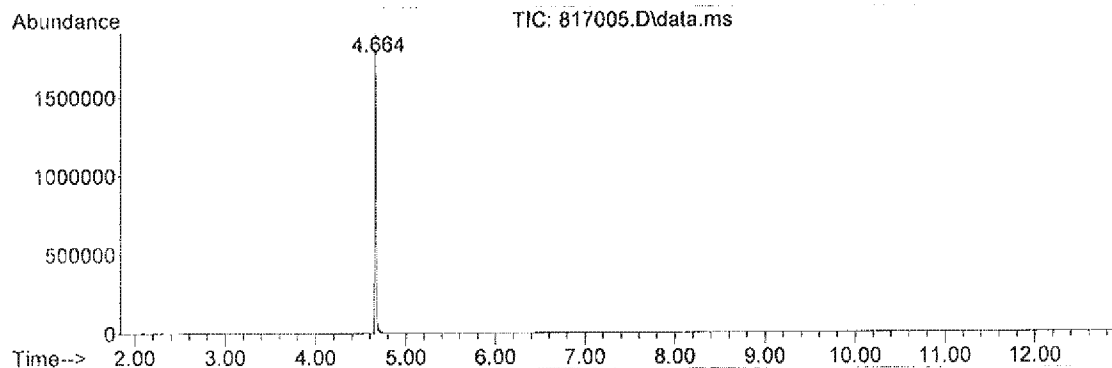
Ret. Time	Area	Area %	Ratio %
4.664	1806340	100.00	100.00

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817005.D
Operator   : KAC
Date Acquired : 14 Feb 2012   15:06
Sample Name   : COCAINE STD
Submitted by   :
Vial Number   : 5
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                   C:\Database\NIST05a.L   Minimum Quality: 85
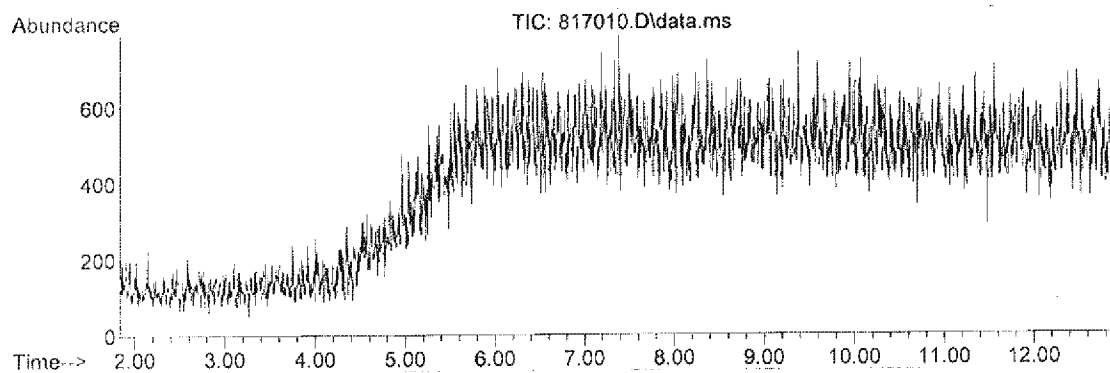   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99

Abundance   Average of 4.622 to 4.823 min.: 817005.D\data.ms (-)

Abundance   #29: COCAINE
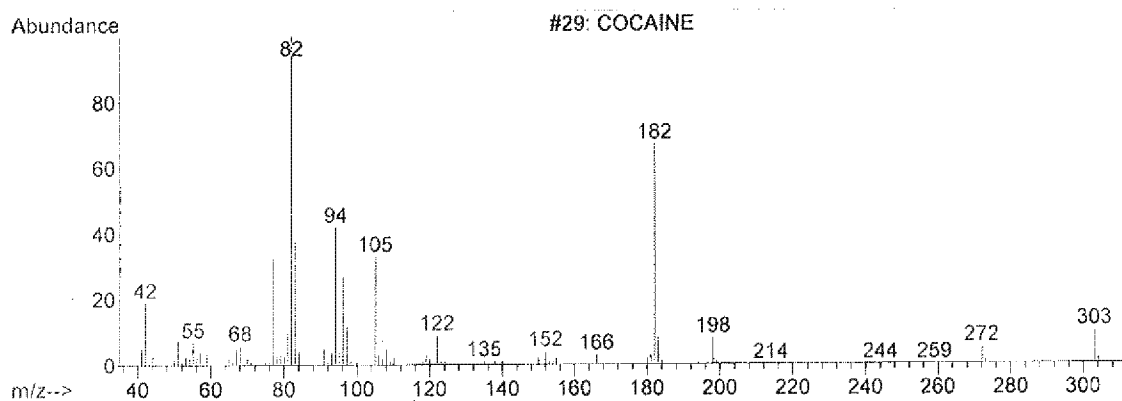
Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817010.D
Operator   : KAC
Date Acquired : 14 Feb 2012 16:24
Sample Name   : BLANK
Submitted by : HLL
Vial Number   : 1
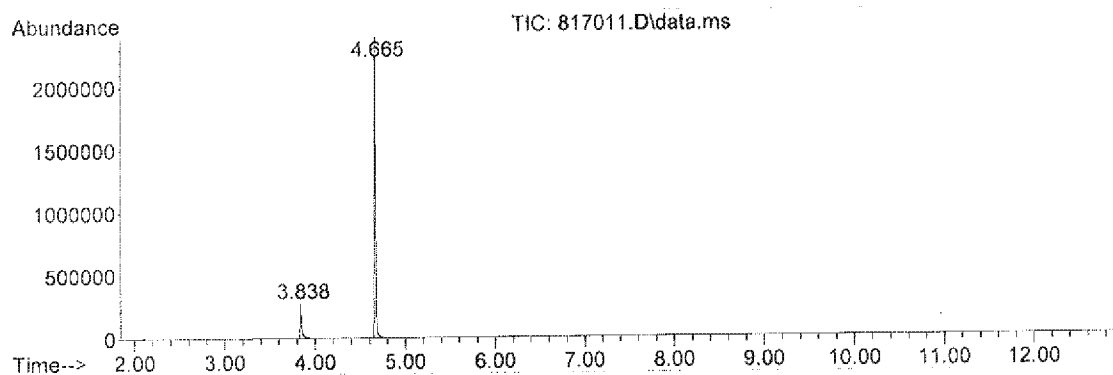AcquisitionMeth: DRUGS.M
Integrator   : RTE

TIC: 817010.D\data.ms

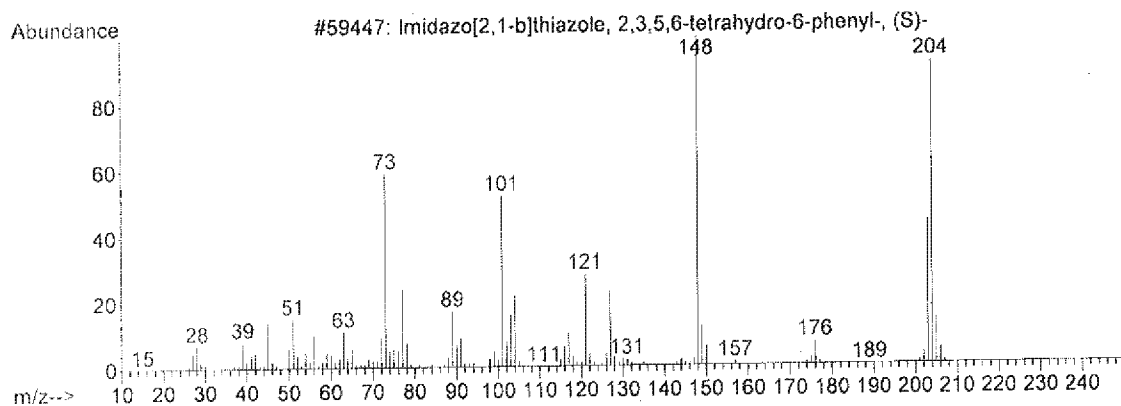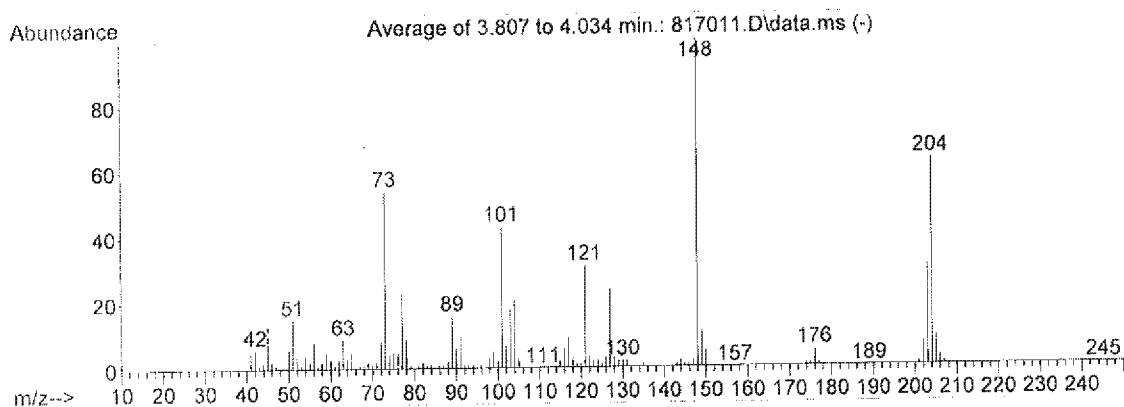| Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
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File Name      : C:\msdchem\1\System7\02_14_12\817011.D
Operator       : KAC
Date Acquired  : 14 Feb 2012  16:39
Sample Name    : ███████
Submitted by   : HLL
Vial Number    : 11
AcquisitionMeth: DRUGS.M
Integrator     : RTE
```


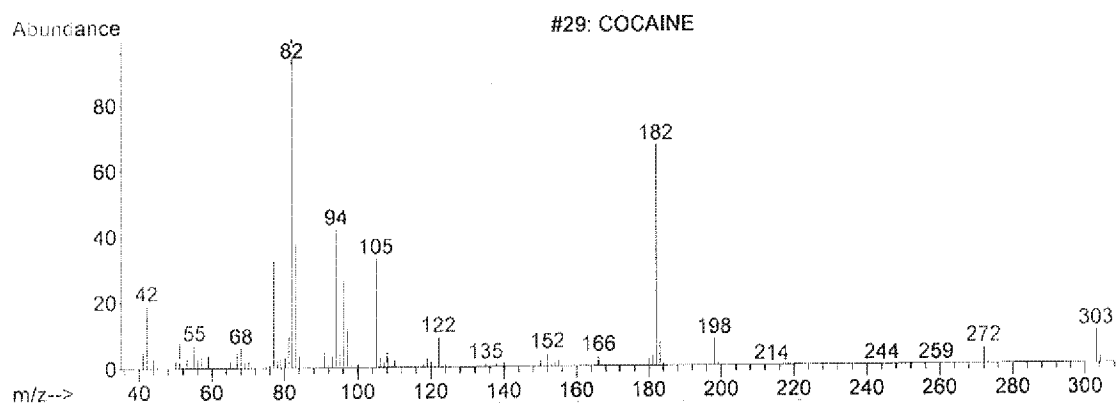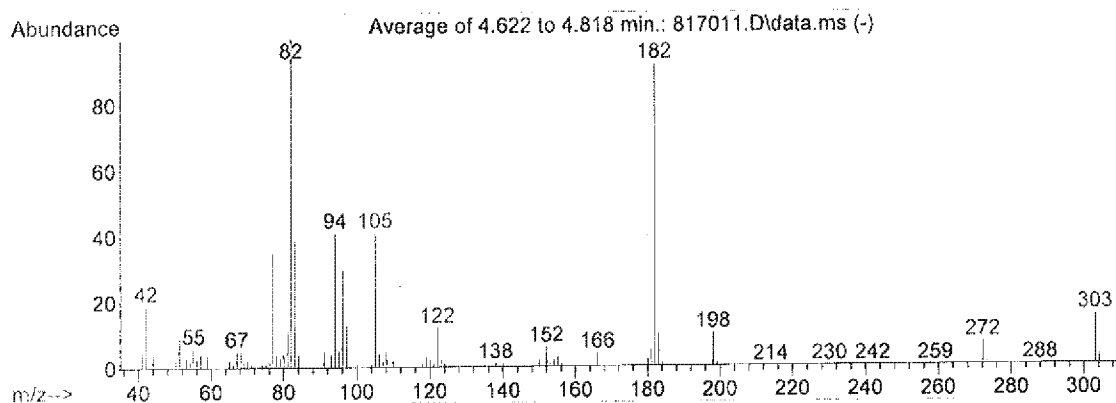| Ret. Time	Area	Area %	Ratio %
3.838	346608	12.76	14.62
4.665	2370029	87.24	100.00

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817011.D
Operator   : KAC
Date Acquired : 14 Feb 2012 16:39
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 11
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                   C:\Database\NIST05a.L   Minimum Quality: 85
                   C:\Database\PMW_TOX2.L

PK#   RT   Library/ID   CAS#   Qual

1   3.84   C:\Database\NIST05a.L
             Imidazo[2,1-b]thiazole, 2,3,5,6-tet 014769-73-4   98
             Imidazo[2,1-b]thiazole, 2,3,5,6-tet 006649-23-6   98
             Imidazo[2,1-b]thiazole, 2,3,5,6-tet 006649-23-6   98

Average of 3.807 to 4.034 min.: 817011.D\data.ms (-)

#59447: Imidazo[2,1-b]thiazole, 2,3,5,6-tetrahydro-6-phenyl-, (S)-

817011.D   Tue Mar 06 14:06:14 2012   Page   2

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817011.D
Operator   : KAC
Date Acquired : 14 Feb 2012 16:39
Sample Name : ███████████
Submitted by : HLL
Vial Number : 11
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                   C:\Database\NIST05a.L   Minimum Quality: 85
   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99

Average of 4.622 to 4.818 min.: 817011.D\data.ms (-)

#29: COCAINE

817011.D   Tue Mar 06 14:06:14 2012   Page 3

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817027.D
Operator   : KAC
Date Acquired : 14 Feb 2012 20:49
Sample Name   : BLANK
Submitted by   :
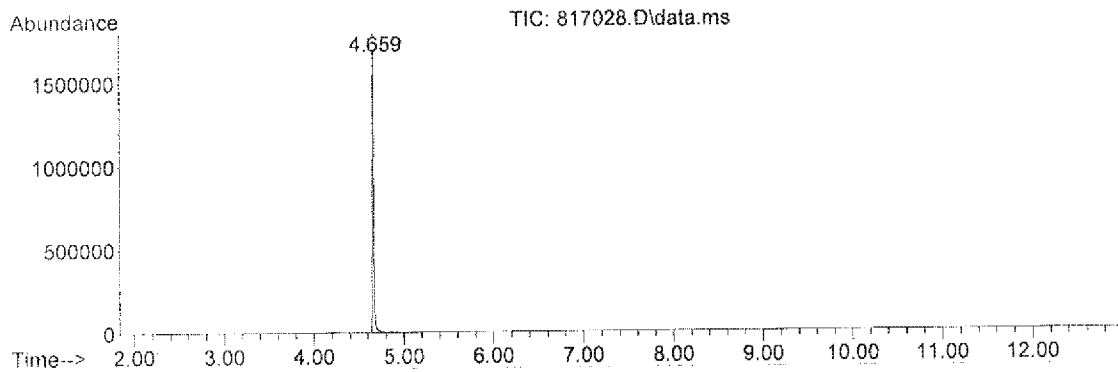Vial Number   :   1
AcquisitionMeth: DRUGS.M
Integrator   : RTE
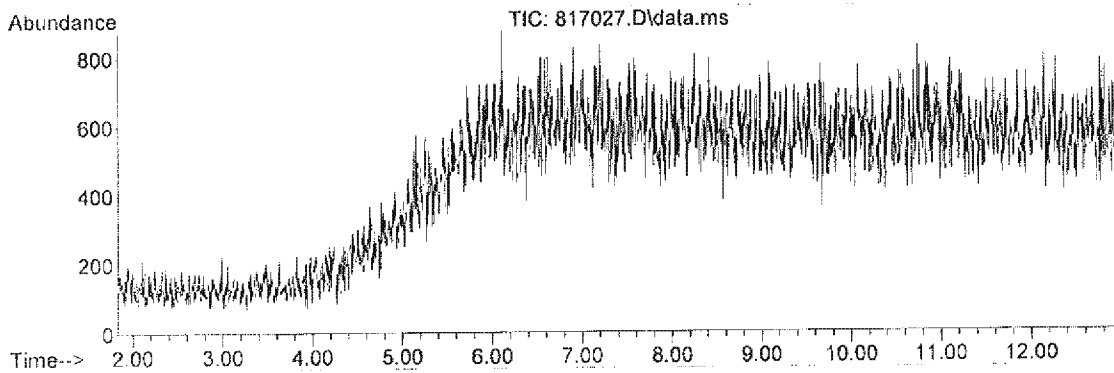
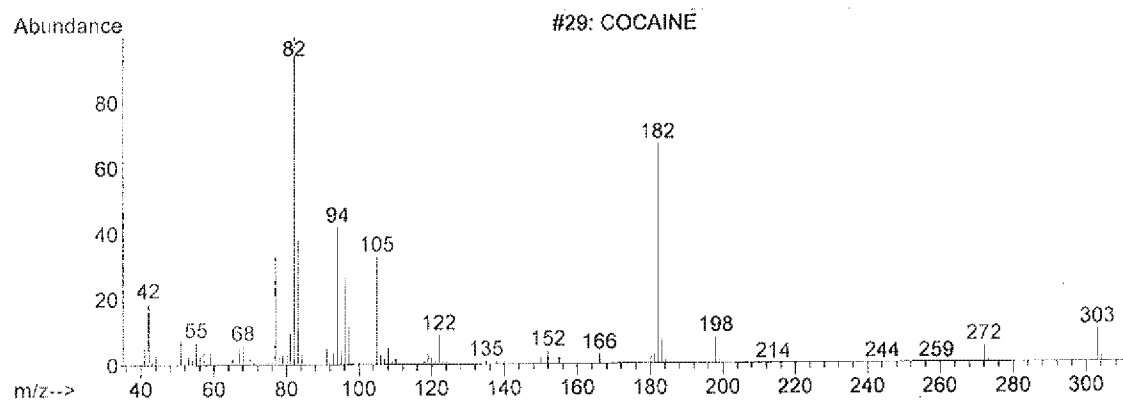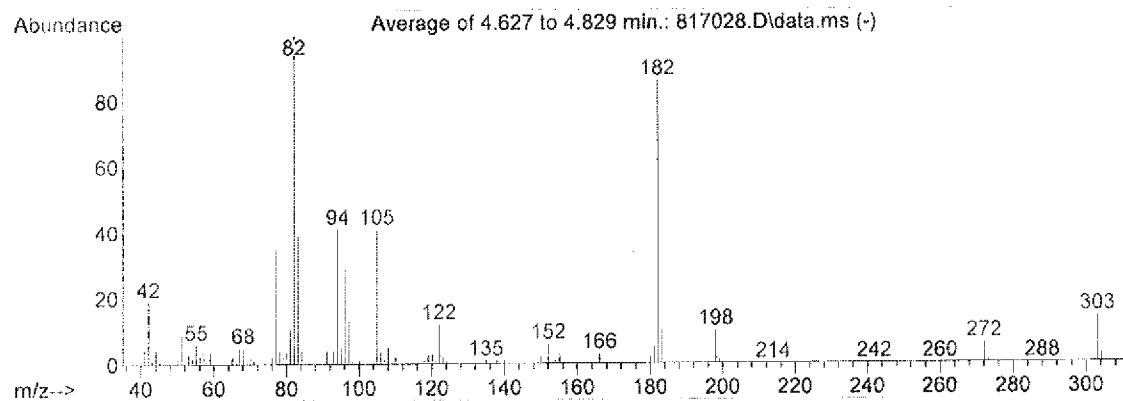| Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817028.D
Operator   : KAC
Date Acquired : 14 Feb 2012 21:05
Sample Name   : COCAINE STD
Submitted by :
Vial Number   : 28
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Ret. Time	Area	Area %	Ratio %
4.659	1771642	100.00	100.00

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817028.D
Operator   : KAC
Date Acquired   : 14 Feb 2012   21:05
Sample Name   : COCAINE STD
Submitted by   :
Vial Number   : 28
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                    C:\Database\NIST05a.L   Minimum Quality: 85
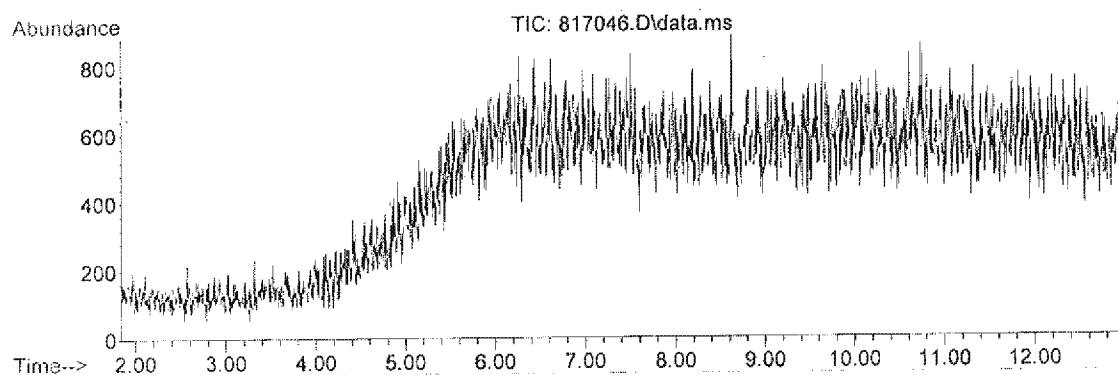   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L		
		COCAINE	000050-36-2	99

Average of 4.627 to 4.829 min.: 817028.D\data.ms (-)

#29: COCAINE

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817046.D
Operator   : KAC
Date Acquired : 15 Feb 2012   1:43
Sample Name   : BLANK
Submitted by   :
Vial Number   :   1
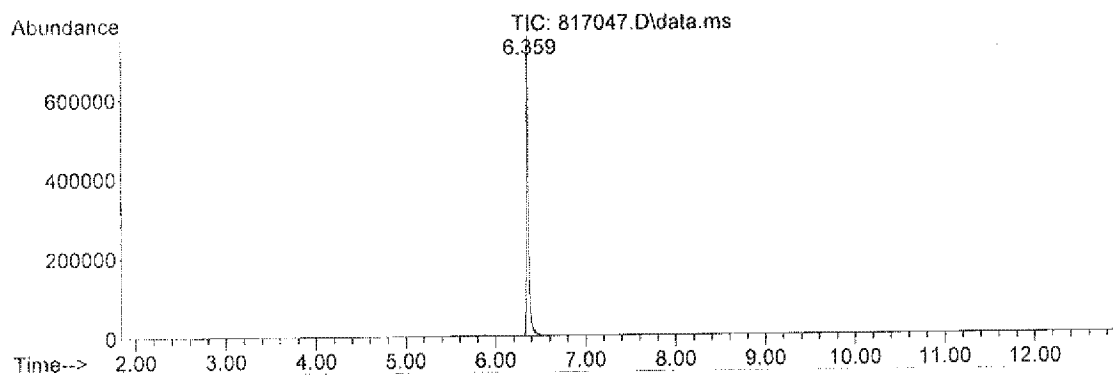AcquisitionMeth: DRUGS.M
Integrator   : RTE

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817047.D
Operator   : KAC
Date Acquired : 15 Feb 2012   1:59
Sample Name   : HEROIN STD
Submitted by   :
Vial Number   : 47
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Abundance

TIC: 817047.D\data.ms
6.359

600000

400000

200000

0

Time-->   2.00   3.00   4.00   5.00   6.00   7.00   8.00   9.00   10.00   11.00   12.00

Ret. Time	Area	Area %	Ratio %
6.359	1142156	100.00	100.00

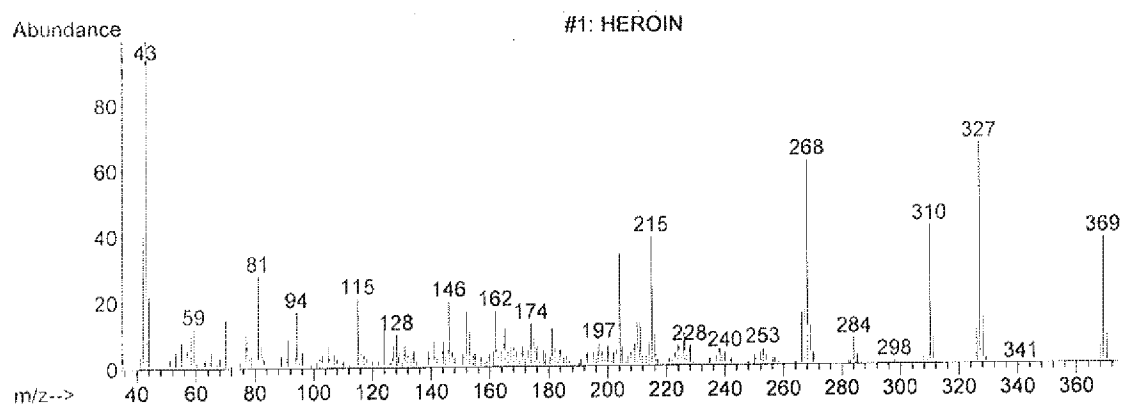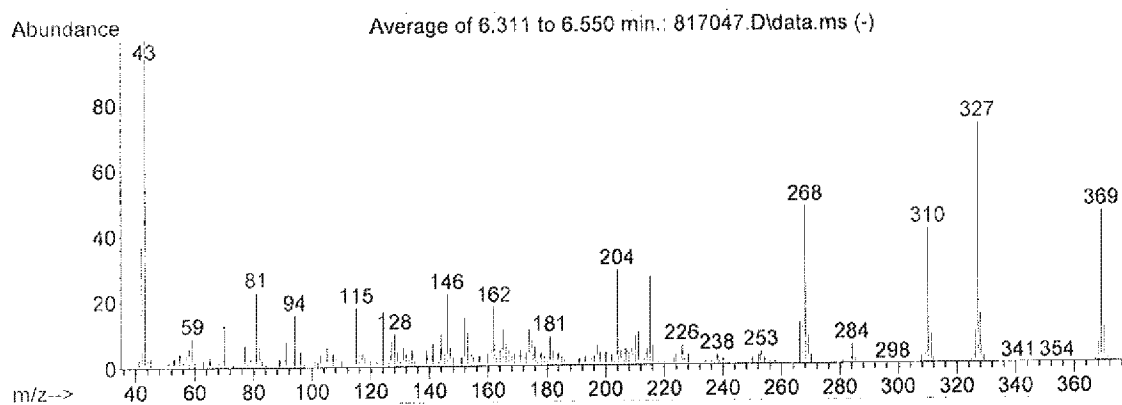
Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817047.D
Operator   : KAC
Date Acquired : 15 Feb 2012   1:59
Sample Name   : HEROIN STD
Submitted by   :
Vial Number   : 47
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                   C:\Database\NIST05a.L   Minimum Quality: 85
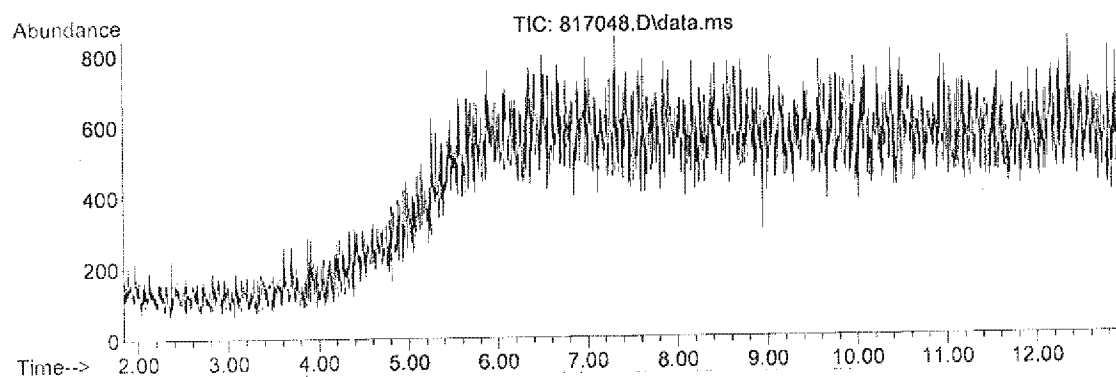   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.36	C:\Database\SLI.L HEROIN	000561-27-3	99

Average of 6.311 to 6.550 min.: 817047.D\data.ms (-)

#1: HEROIN

Corbett_email_PRR_009179

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817048.D
Operator   : KAC
Date Acquired   : 15 Feb 2012   2:14
Sample Name   : BLANK
Submitted by   : HLL
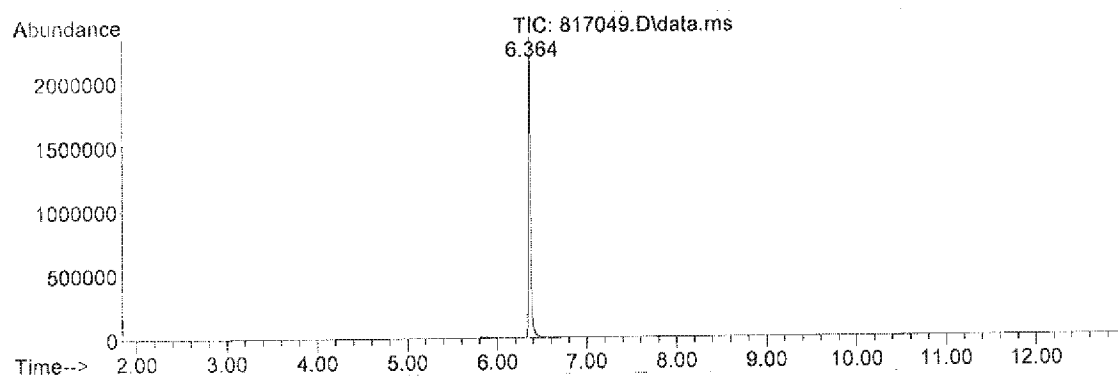Vial Number   :   1
AcquisitionMeth: DRUGS.M
Integrator   : RTE

TIC: 817048.D\data.ms

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

817048.D   Tue Mar 06 14:07:11 2012   Page   1

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817049.D
Operator   : KAC
Date Acquired : 15 Feb 2012   2:30
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 49
AcquisitionMeth: DRUGS.M
Integrator   : RTE

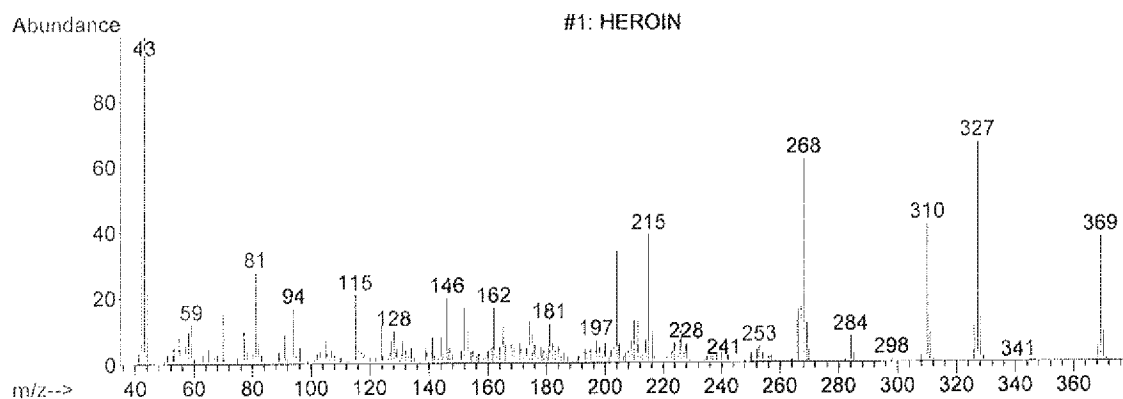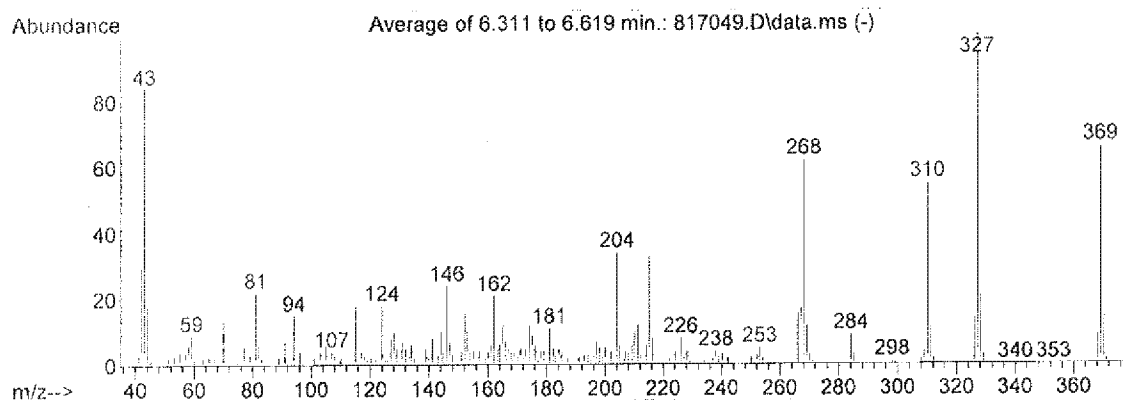| Ret. Time	Area	Area %	Ratio %
6.364	3605191	100.00	100.00

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817049.D
Operator   : KAC
Date Acquired : 15 Feb 2012   2:30
Sample Name   : ██████████
Submitted by   : HLL
Vial Number   : 49
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                    C:\Database\NIST05a.L   Minimum Quality: 85
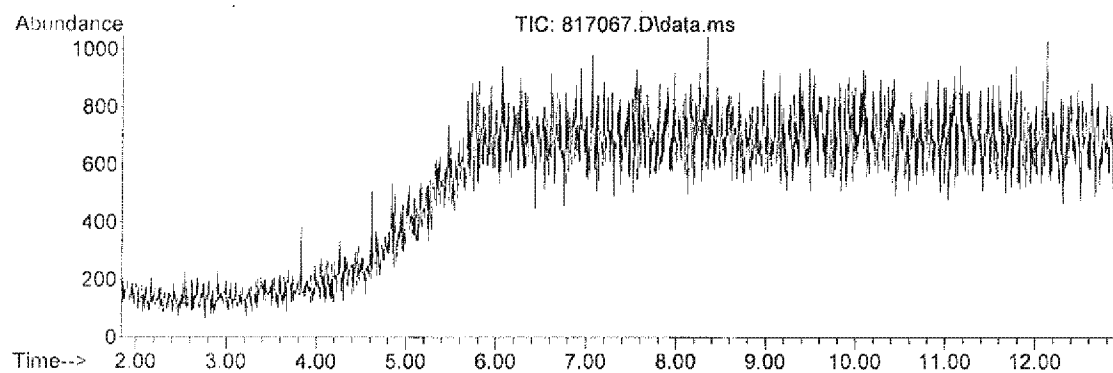   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.36	C:\Database\SLI.L		
		HEROIN	000561-27-3	99

Average of 6.311 to 6.619 min.: 817049.D\data.ms (-)

#1: HEROIN

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817067.D
Operator   : KAC
Date Acquired : 15 Feb 2012   7:09
Sample Name   : BLANK
Submitted by   :
Vial Number   :   2
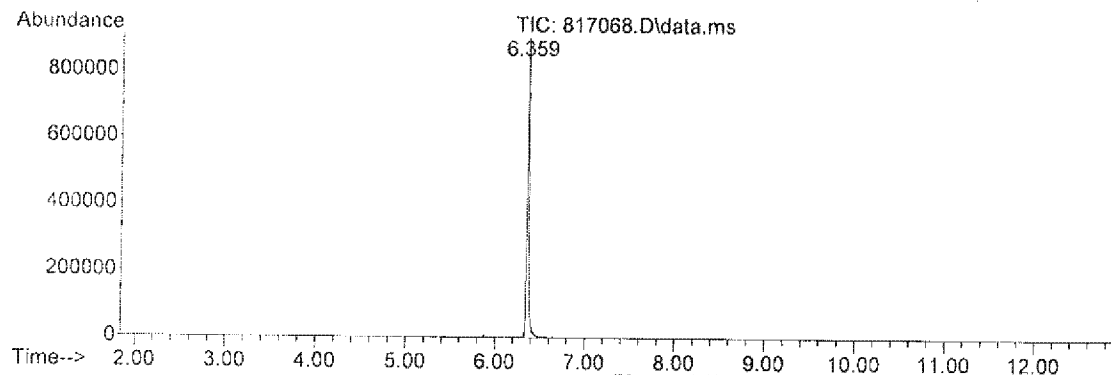AcquisitionMeth: DRUGS.M
Integrator   : RTE

Abundance
TIC: 817067.D\data.ms

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817068.D
Operator   : KAC
Date Acquired   : 15 Feb 2012   7:25
Sample Name   : HEROIN STD
Submitted by   :
Vial Number   : 68
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Abundance   TIC: 817068.D\data.ms
                                   6.359
 800000

 600000

 400000

 200000

      0
Time--> 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00

Ret. Time	Area	Area %	Ratio %
6.359	1332059	100.00	100.00

817068.D   Tue Mar 06 14:07:34 2012   Page 1
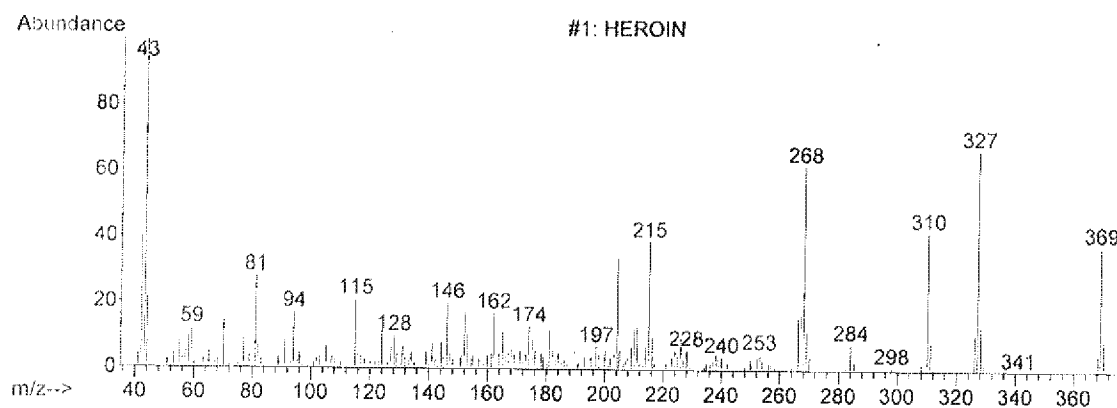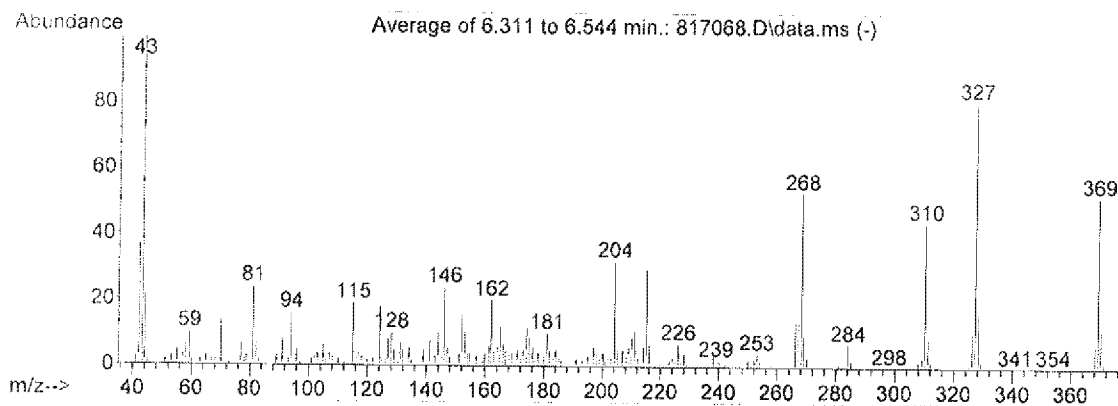

Information from Data File:
File Name   : C:\msdchem\1\System7\02_14_12\817068.D
Operator   : KAC
Date Acquired : 15 Feb 2012   7:25
Sample Name   : HEROIN STD
Submitted by :
Vial Number   : 68
AcquisitionMeth: DRUGS.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 85
                    C:\Database\NIST05a.L   Minimum Quality: 85
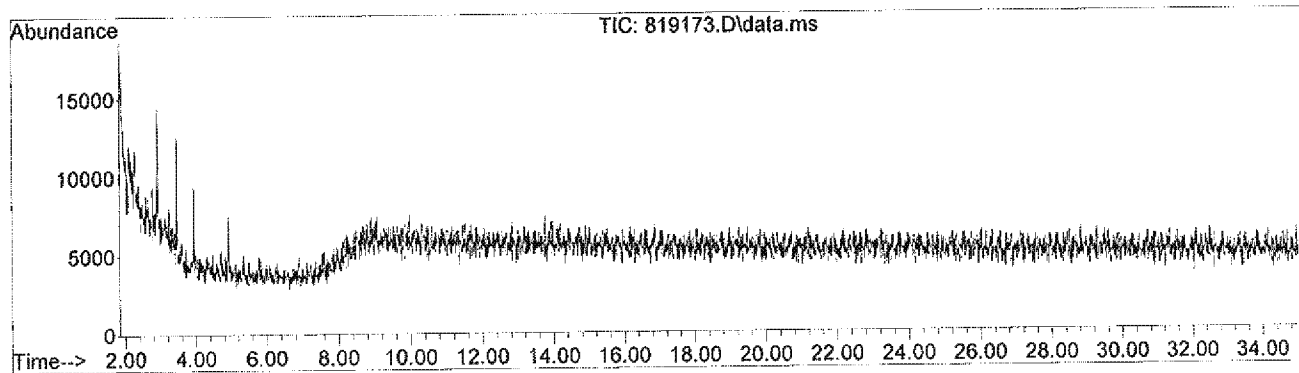   C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.36	C:\Database\SLI.L		
		HEROIN	000561-27-3	99

Average of 6.311 to 6.544 min.: 817068.D\data.ms (-)

#1: HEROIN

Area Percent / Library Search Report

(handwritten top right) 1/K MC 3/6/12

Information from Data File:

```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819173.D
Operator         : KAC
Date Acquired    : 28 Feb 2012  11:23
Sample Name      : BLANK
Submitted by     :
Vial Number      :   2
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```
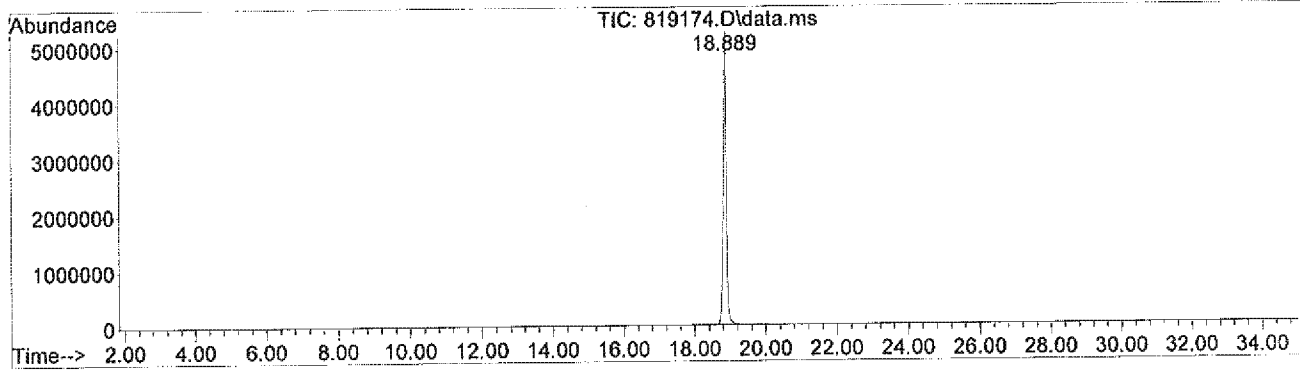

TIC: 819173.D\data.ms

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819174.D
Operator   : KAC
Date Acquired : 28 Feb 2012 12:02
Sample Name   : BUPRENORPHINE STD
Submitted by   :
Vial Number   : 74
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Ret. Time	Area	Area %	Ratio %
18.889	29575046	100.00	100.00

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819174.D
Operator   : KAC
Date Acquired : 28 Feb 2012 12:02
Sample Name   : BUPRENORPHINE STD
Submitted by   :
Vial Number   : 74
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
1	18.89	C:\Database\NIST08.L			
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	96

Abundance   Average of 18.622 to 19.269 min.: 819174.D\data.ms (-)

Abundance #209837: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-.alpha.-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hy
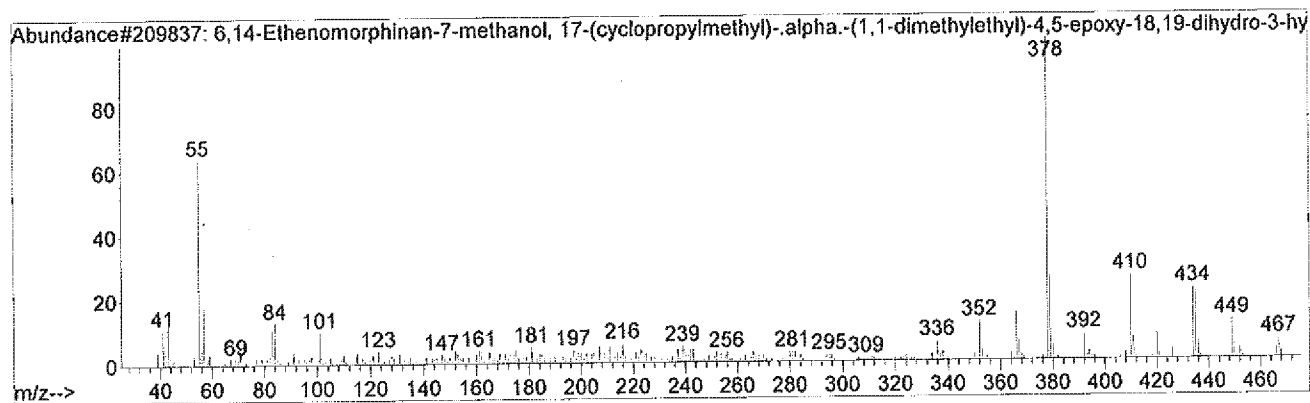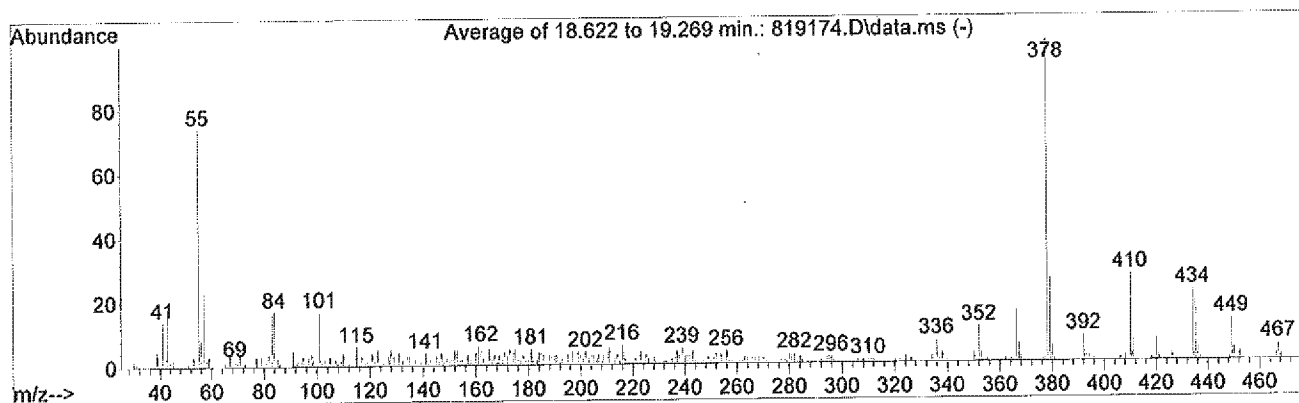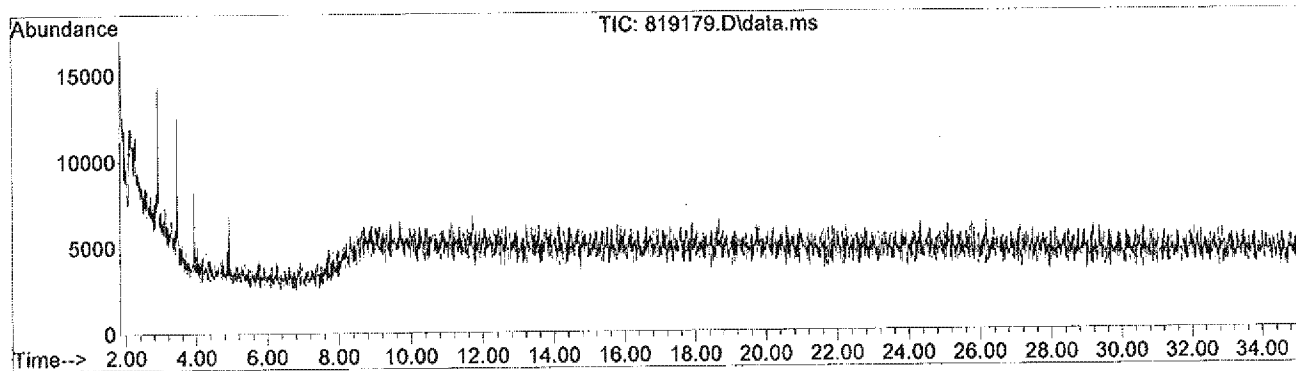
Area Percent / Library Search Report

Information from Data File:
```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819179.D
Operator         : KAC
Date Acquired    : 28 Feb 2012   15:15
Sample Name      : BLANK
Submitted by     : HLL
Vial Number      :   2
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```
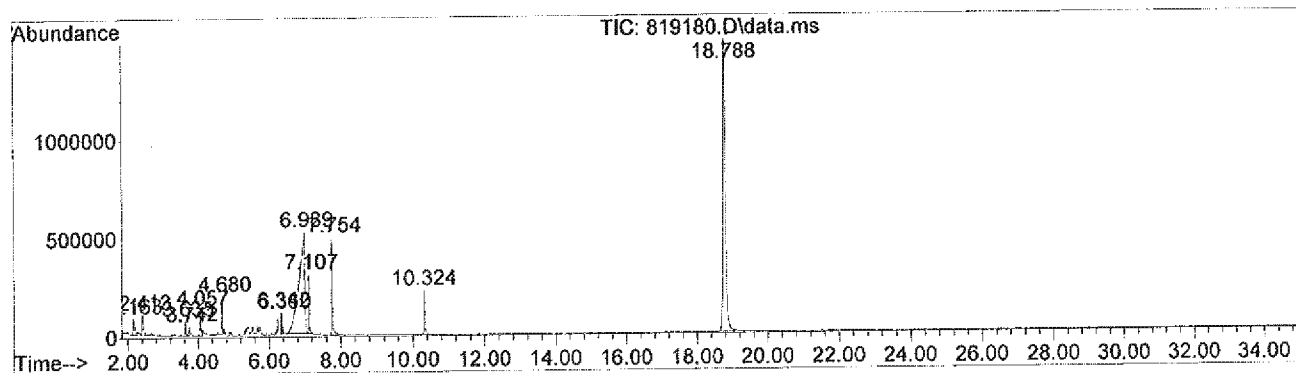

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired : 28 Feb 2012   15:54
Sample Name   : ███████
Submitted by   : ███
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Ret. Time	Area	Area %	Ratio %
2.163	290754	1.89	4.25
2.413	322554	2.10	4.72
3.635	129549	0.84	1.90
3.742	145737	0.95	2.13
4.057	208340	1.35	3.05
4.680	205495	1.33	3.01
6.342	122776	0.80	1.80
6.360	108880	0.71	1.59
6.989	5656112	36.74	82.74
7.107	338620	2.20	4.95
7.754	649368	4.22	9.50
10.324	381711	2.48	5.58
18.788	6835731	44.40	100.00

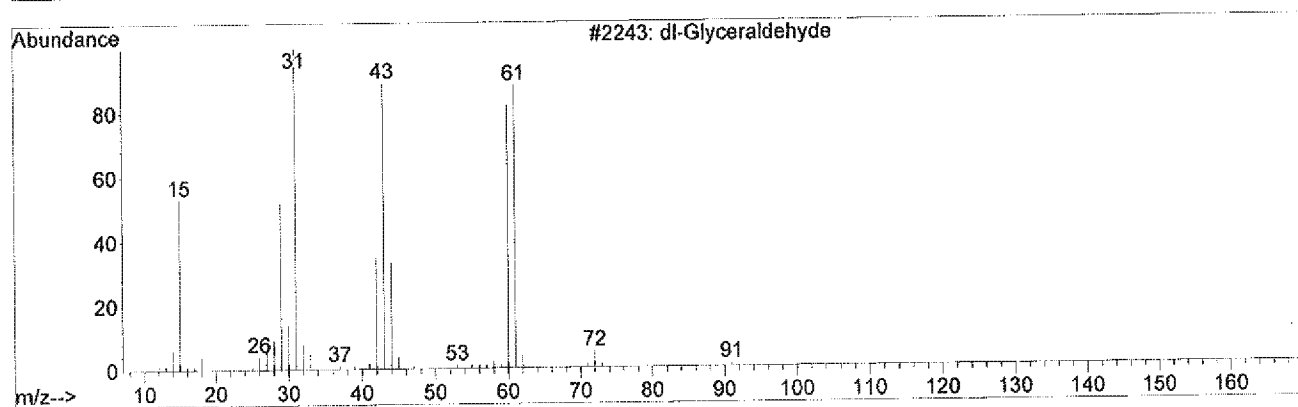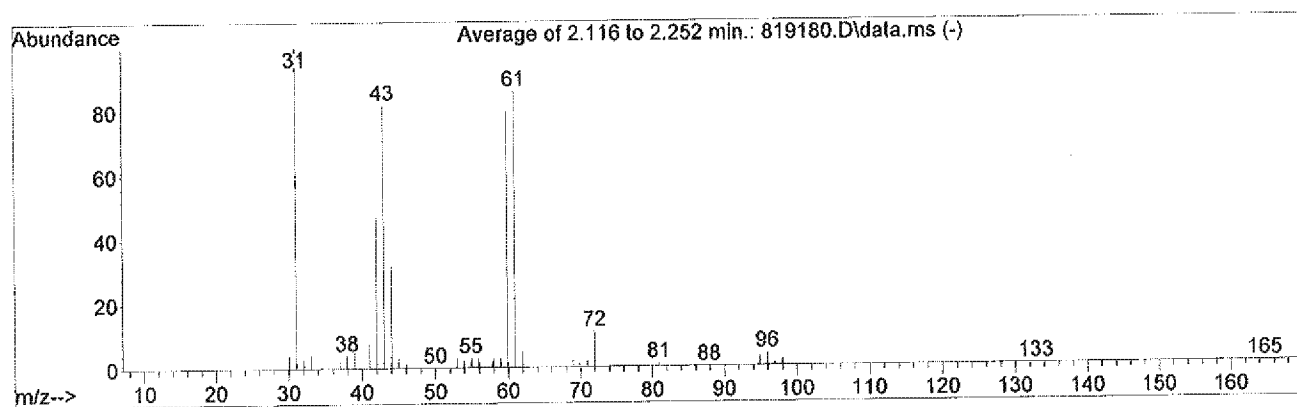819180.D   Tue Mar 06 14:09:33 2012   Page   1

Area Percent / Library Search Report

Information from Data File:
```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator         : KAC
Date Acquired    : 28 Feb 2012   15:54
Sample Name      : ████████████
Submitted by     : HLL
Vial Number      : 80
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                    C:\Database\NIST08.L   Minimum Quality: 10
                    C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.16	C:\Database\NIST08.L		
		dl-Glyceraldehyde	000056-82-6	83
		DL-Xylose	041247-05-6	45
		Diglycolic acid	000110-99-6	40

Abundance — Average of 2.116 to 2.252 min.: 819180.D\data.ms (-)
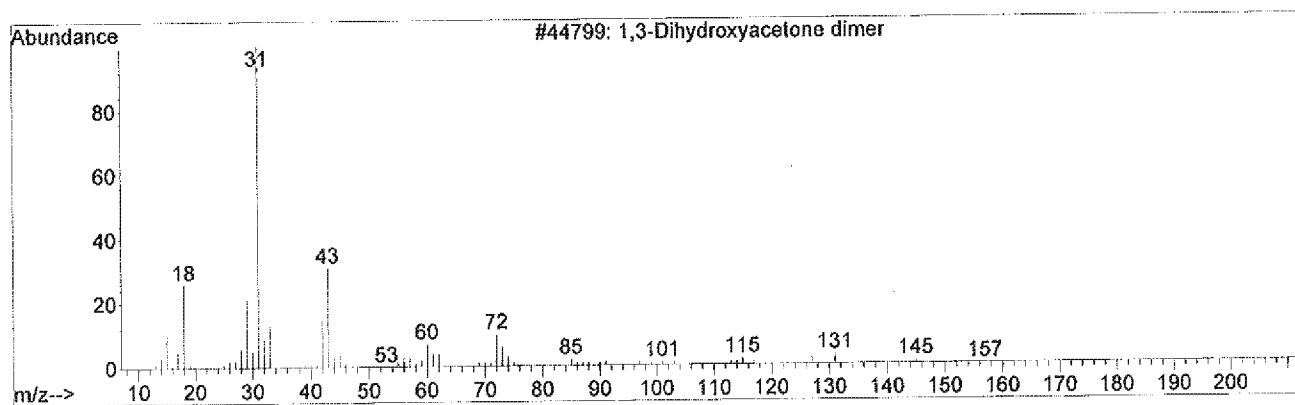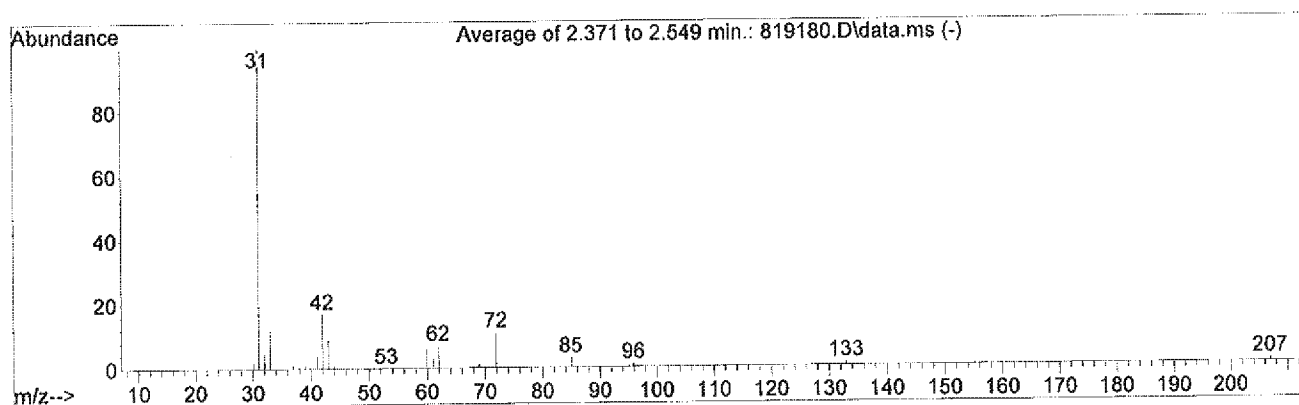
Abundance — #2243: dl-Glyceraldehyde

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ███████████
Submitted by   : ████
Vial Number   : 80
AcquisitionMeth : WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                    C:\Database\NIST08.L   Minimum Quality: 10
                    C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.41	C:\Database\NIST08.L		
		1,3-Dihydroxyacetone dimer	062147-49-3	64
		2-Propanone, 1,3-dihydroxy-	000096-26-4	64
		dl-Glyceraldehyde dimer	026793-98-6	40

Average of 2.371 to 2.549 min.: 819180.D\data.ms (-)

#44799: 1,3-Dihydroxyacetone dimer

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Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	3.64	C:\Database\NIST08.L		
		dl-Glyceraldehyde	000056-82-6	38
		3-Methoxy-2,2-dimethyloxirane	026196-04-3	35
		4-Amino-furazan-3-carboxylic acid (	347355-79-7	33

Average of 3.611 to 3.683 min.: 819180.D\data.ms (-)

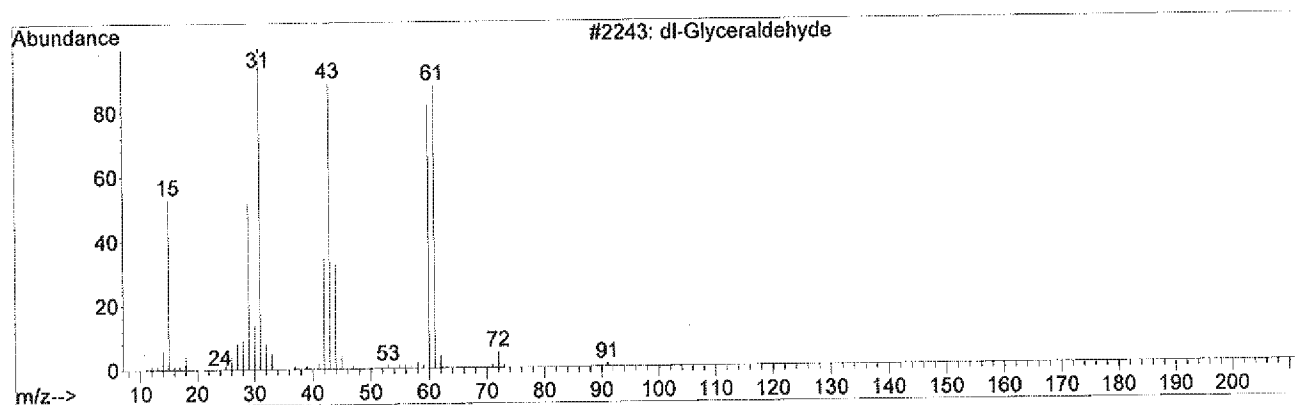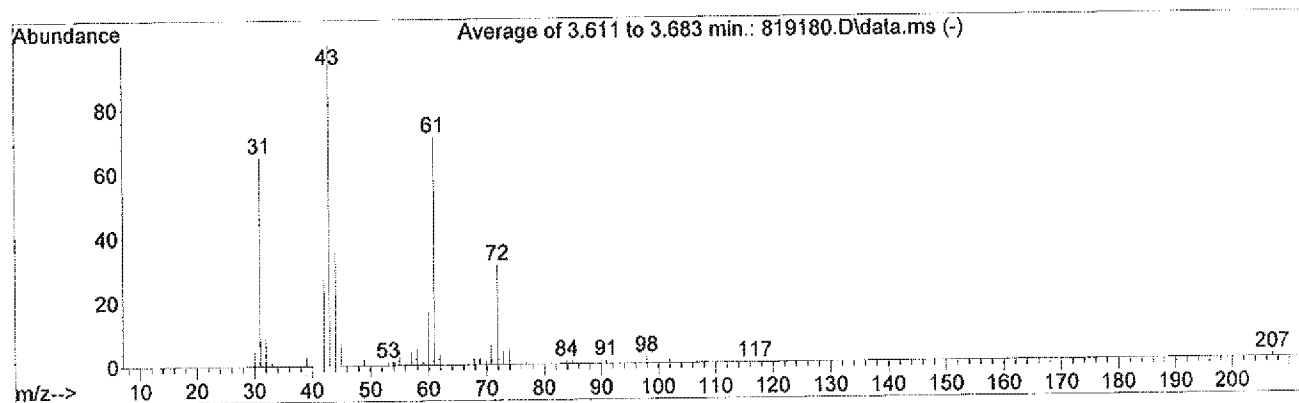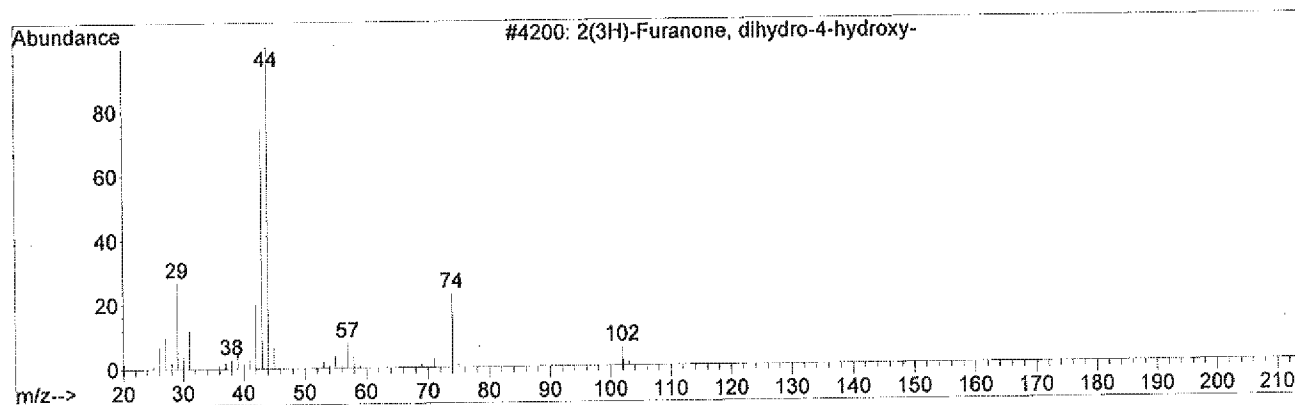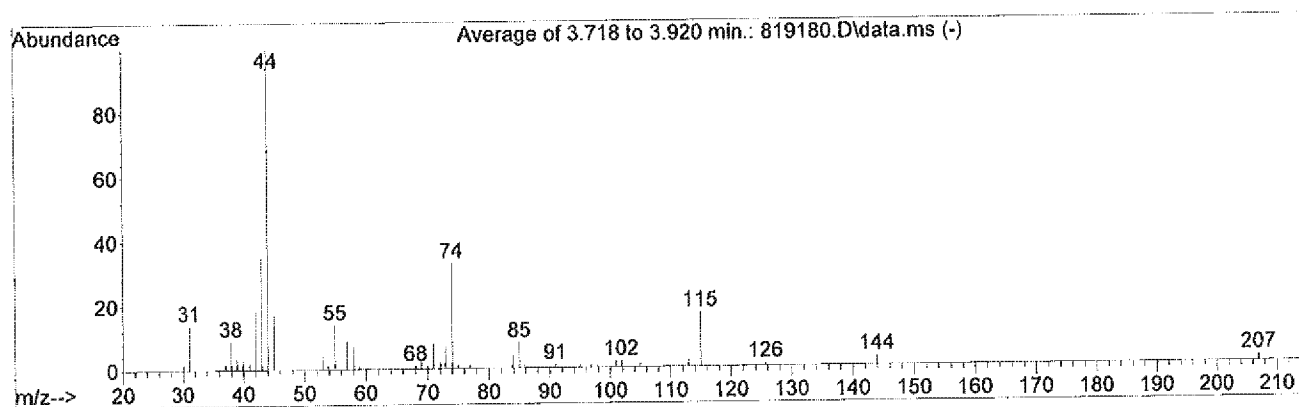#2243: dl-Glyceraldehyde

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   :
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	3.74	C:\Database\NIST08.L		
		2(3H)-Furanone, dihydro-4-hydroxy-	005469-16-9	64
		Pentanal	000110-62-3	47
		Cyclopropyl carbinol	002516-33-8	40

Average of 3.718 to 3.920 min.: 819180.D\data.ms (-)

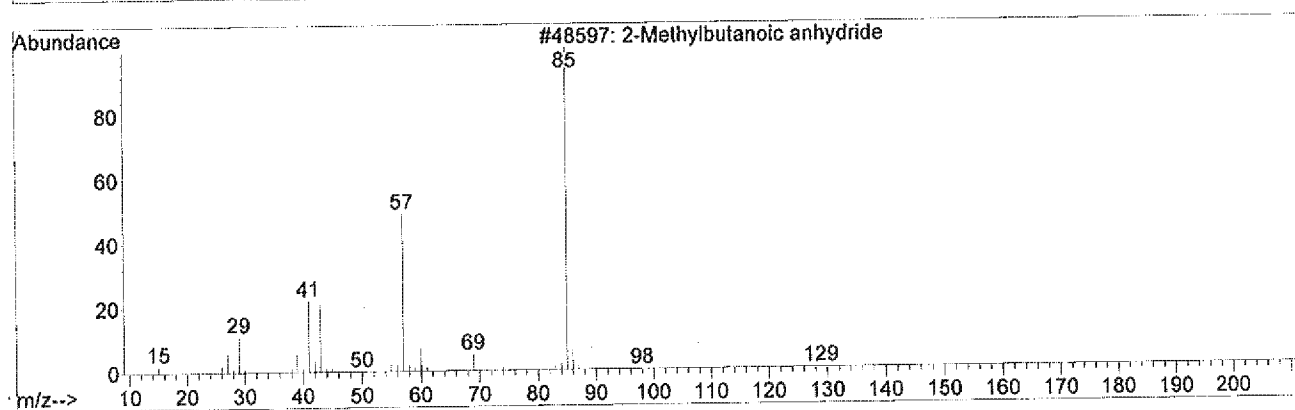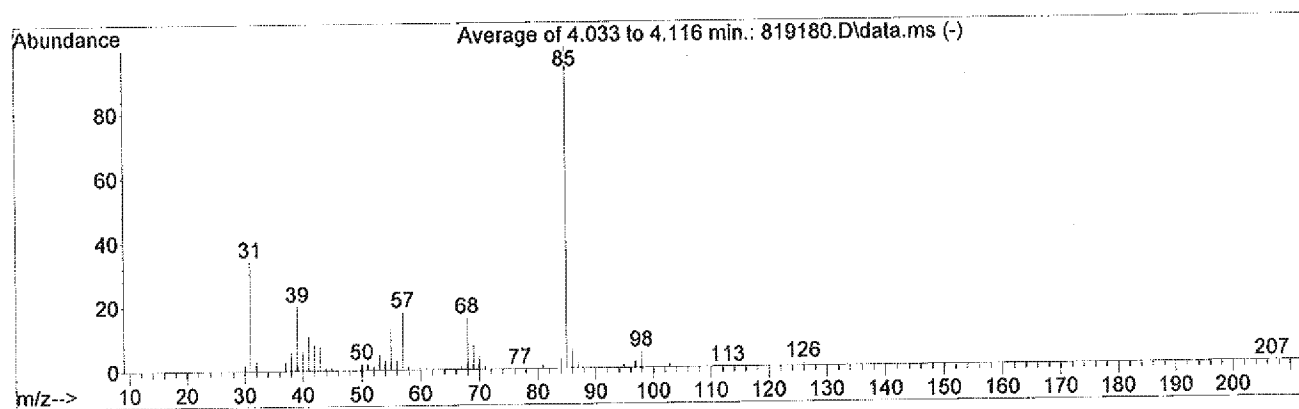#4200: 2(3H)-Furanone, dihydro-4-hydroxy-

Area Percent / Library Search Report

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ████████████
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	4.06	C:\Database\NIST08.L		
		2-Methylbutanoic anhydride	001468-39-9	53
		Hexan-2,4-dione, enol	1000202-23-9	50
		1-Bromo-7-(tetrahydro-2-pyranyloxy)	010160-25-5	39

Average of 4.033 to 4.116 min.: 819180.D\data.ms (-)

#48597: 2-Methylbutanoic anhydride

819180.D   Tue Mar 06 14:09:34 2012   Page   6
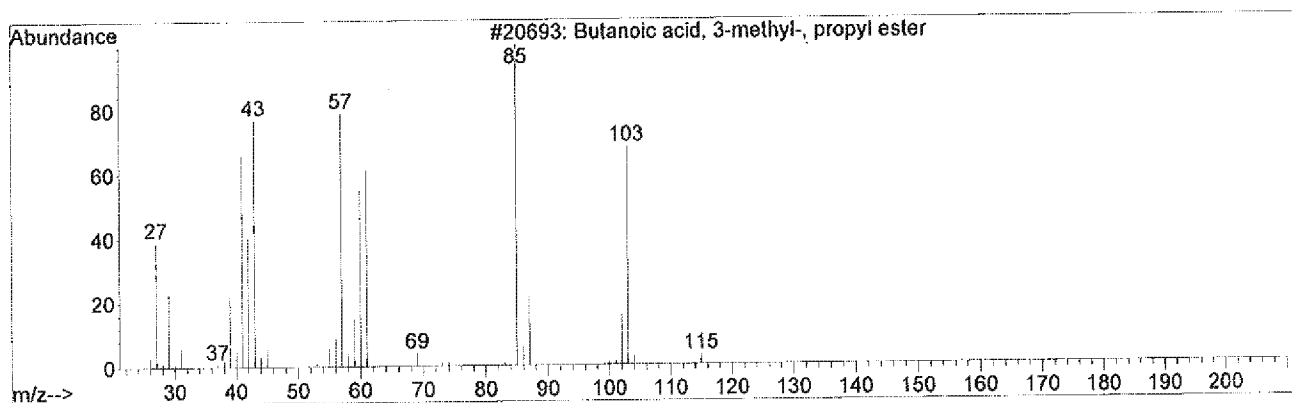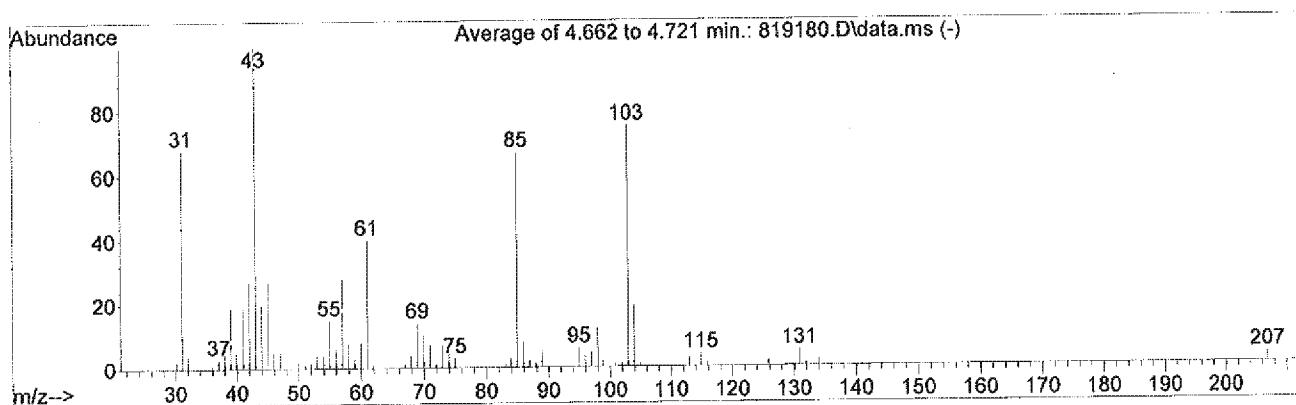
Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ▮▮▮▮▮▮▮▮
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
6	4.68	C:\Database\NIST08.L		
		Butanoic acid, 3-methyl-, propyl es	000557-00-6	47
		Butanoic acid, 3-methyl-, propyl es	000557-00-6	38
		Butanedioic acid, 2-hydroxy-2-methy	006236-09-5	32

Average of 4.662 to 4.721 min.: 819180.D\data.ms (-)

#20693: Butanoic acid, 3-methyl-, propyl ester

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Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                    C:\Database\NIST08.L   Minimum Quality: 10
                    C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
7	6.34	C:\Database\NIST08.L		
		2-Isopropyl(dimethyl)silyloxypropan	1000278-74-1	27
		Heptane, 1,1-dimethoxy-	010032-05-0	27
		.beta.-Alanine, trimethylsilyl este	005269-40-9	22

Average of 6.318 to 6.348 min.: 819180.D\data.ms (-)

#30745: 2-Isopropyl(dimethyl)silyloxypropane
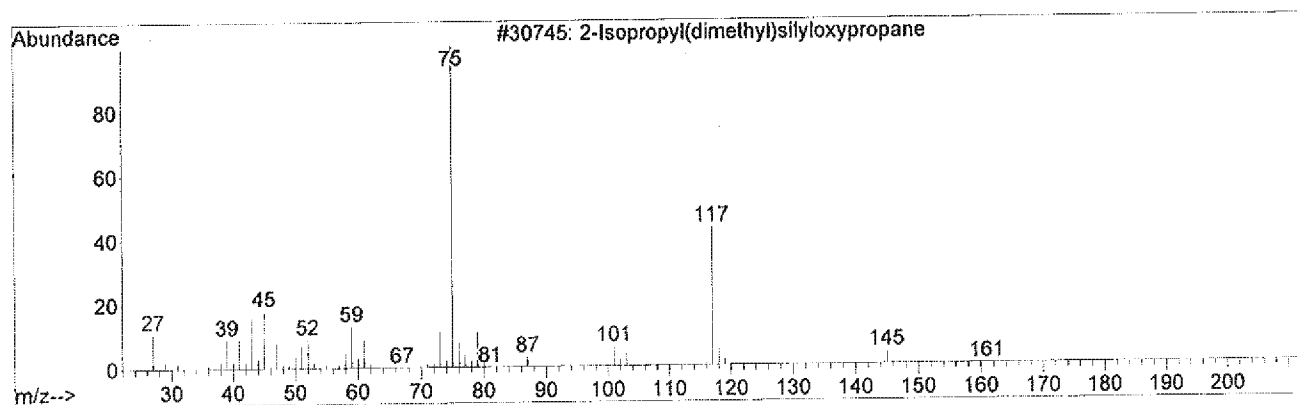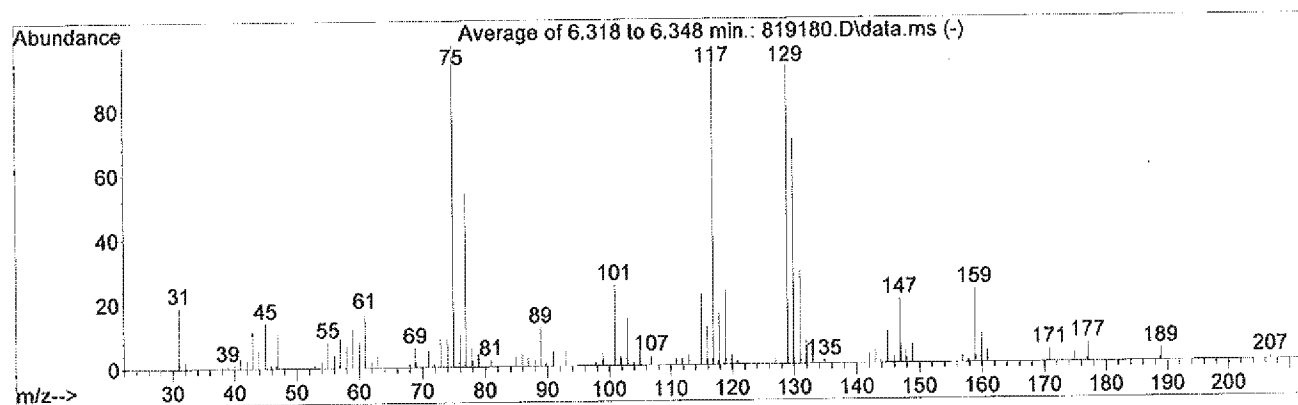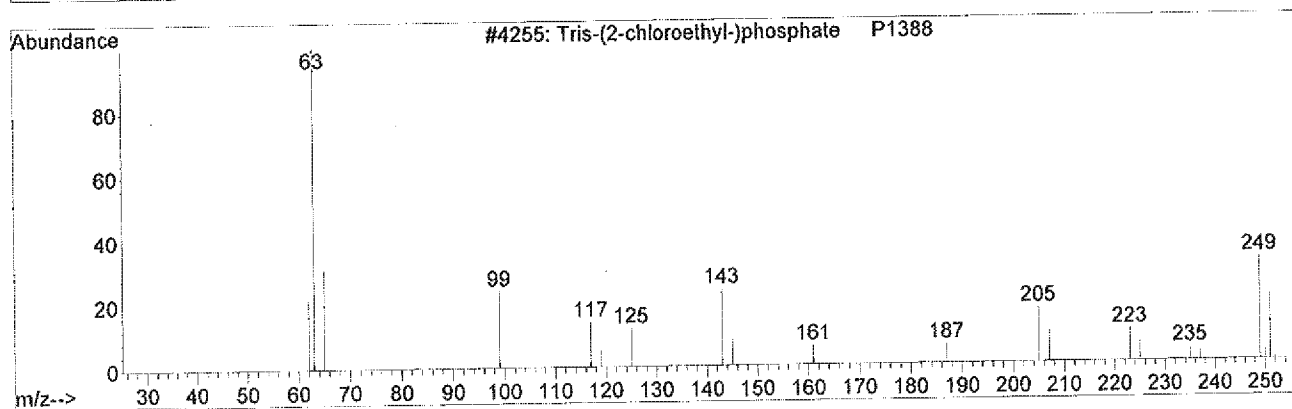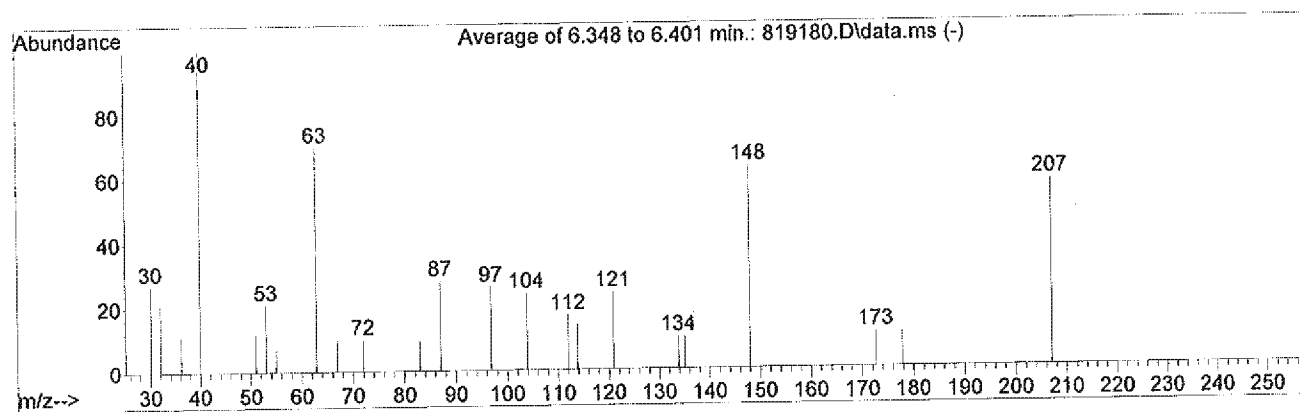
Area Percent / Library Search Report

Information from Data File:
```
File Name      : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator       : KAC
Date Acquired  : 28 Feb 2012    15:54
Sample Name    :
Submitted by   :
Vial Number    :  80
AcquisitionMeth: WSCREEN.M
Integrator     : RTE
```

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                    C:\Database\NIST08.L   Minimum Quality: 10
                    C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
8	6.36	C:\Database\PMW_TOX2.L		
		Tris-(2-chloroethyl-)phosphate	000115-96-8	1
		Dimethylsulfoxide	000067-68-5	1

Average of 6.348 to 6.401 min.: 819180.D\data.ms (-)

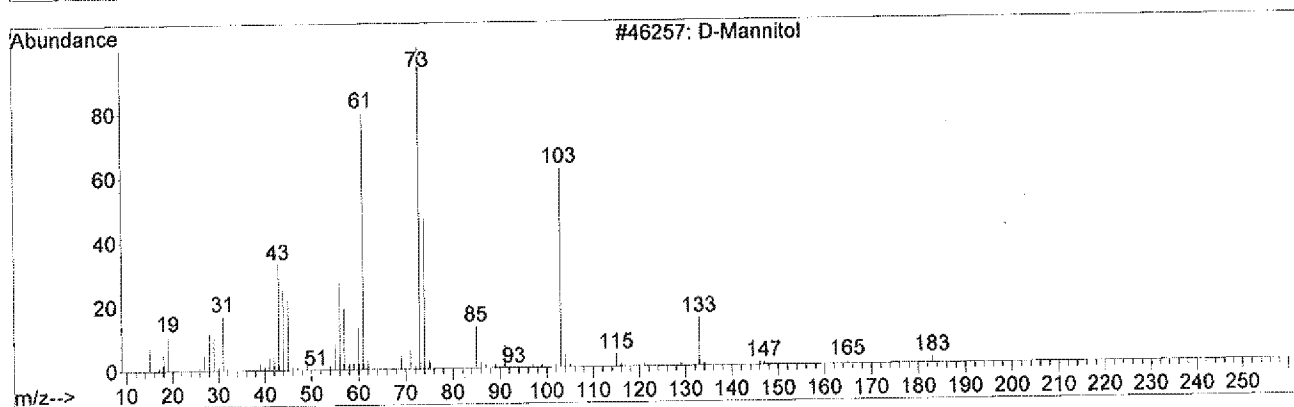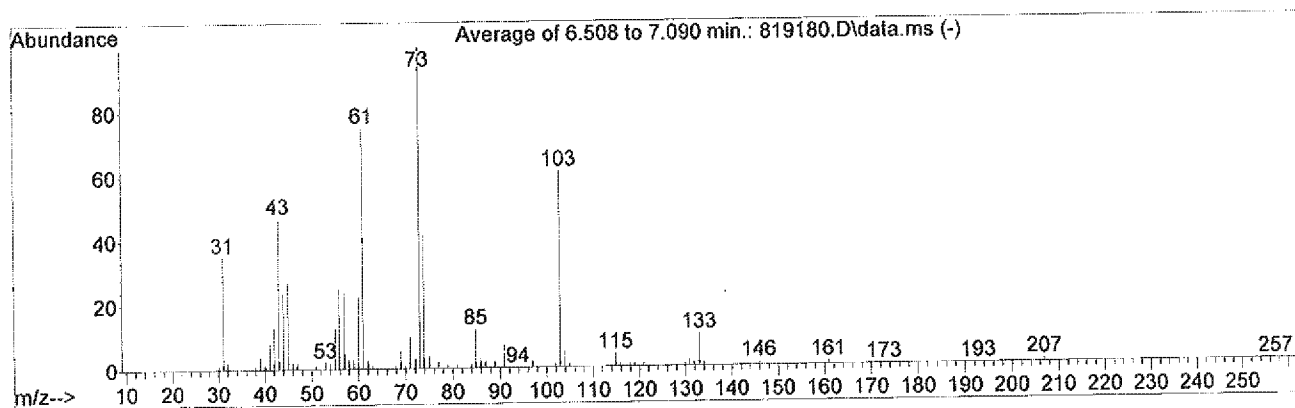#4255: Tris-(2-chloroethyl-)phosphate   P1388

Area Percent / Library Search Report

Information from Data File:
```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator         : KAC
Date Acquired    : 28 Feb 2012  15:54
Sample Name      : ▮▮▮▮▮▮▮
Submitted by     : HLL
Vial Number      : 80
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```

Search Libraries:	C:\Database\SLI.L	Minimum Quality: 80
	C:\Database\NIST08.L	Minimum Quality: 10
	C:\Database\PMW_TOX2.L	

PK#	RT	Library/ID	CAS#	Qual
9	6.99	C:\Database\NIST08.L		
		D-Mannitol	000069-65-8	91
		Sorbitol	000050-70-4	90
		Galactitol	000608-66-2	87

Average of 6.508 to 7.090 min.: 819180.D\data.ms (-)

#46257: D-Mannitol
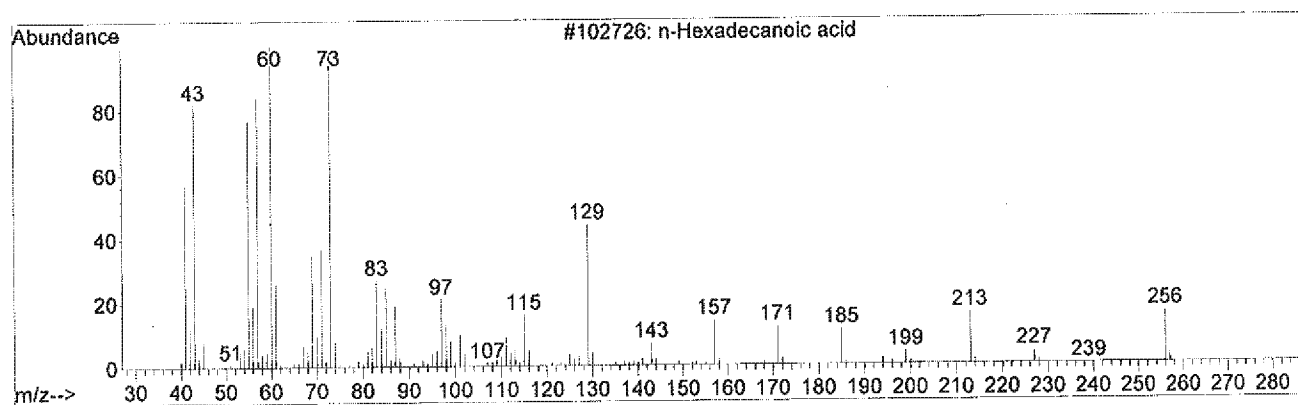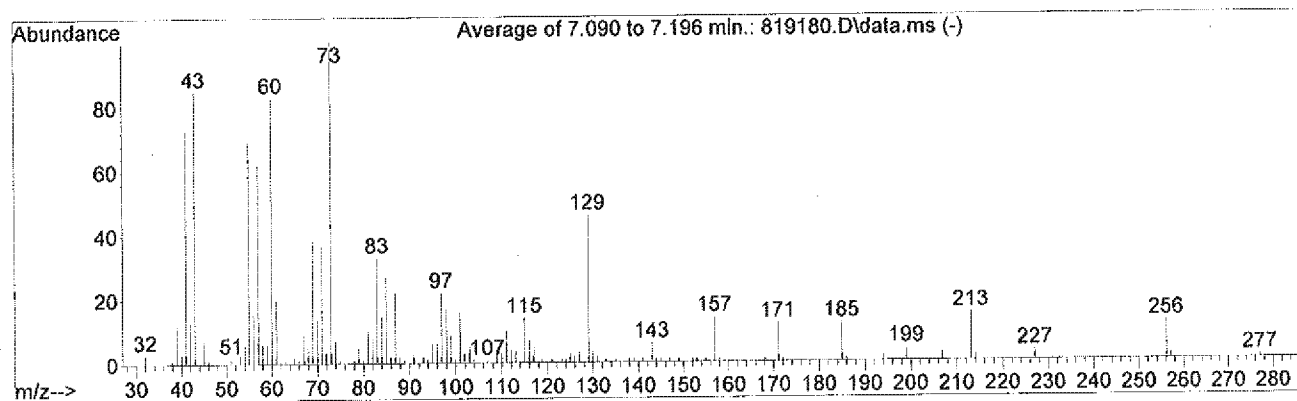
Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired : 28 Feb 2012   15:54
Sample Name   : ████████████
Submitted by :
Vial Number   :   80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
10	7.11	C:\Database\NIST08.L		
		n-Hexadecanoic acid	000057-10-3	97
		n-Hexadecanoic acid	000057-10-3	95
		Pentadecanoic acid	001002-84-2	87

Average of 7.090 to 7.196 min.: 819180.D\data.ms (-)

#102726: n-Hexadecanoic acid

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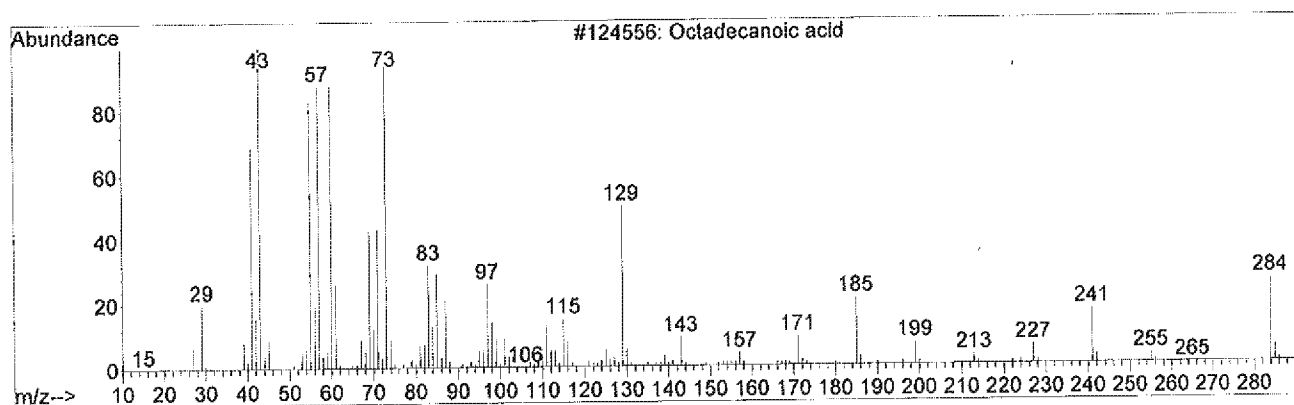
Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
11	7.75	C:\Database\NIST08.L		
		Octadecanoic acid	000057-11-4	99
		Octadecanoic acid	000057-11-4	96
		Octadecanoic acid	000057-11-4	95

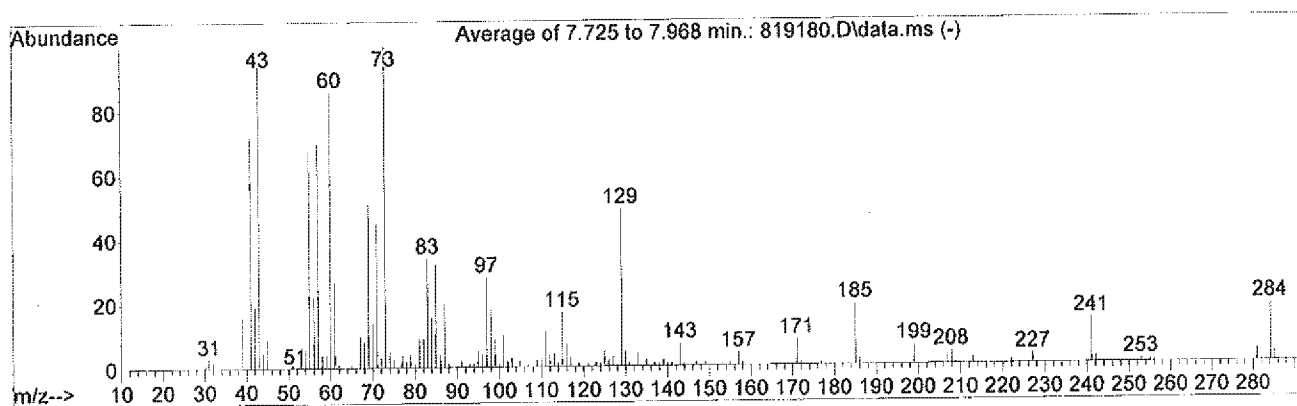Average of 7.725 to 7.968 min.: 819180.D\data.ms (-)

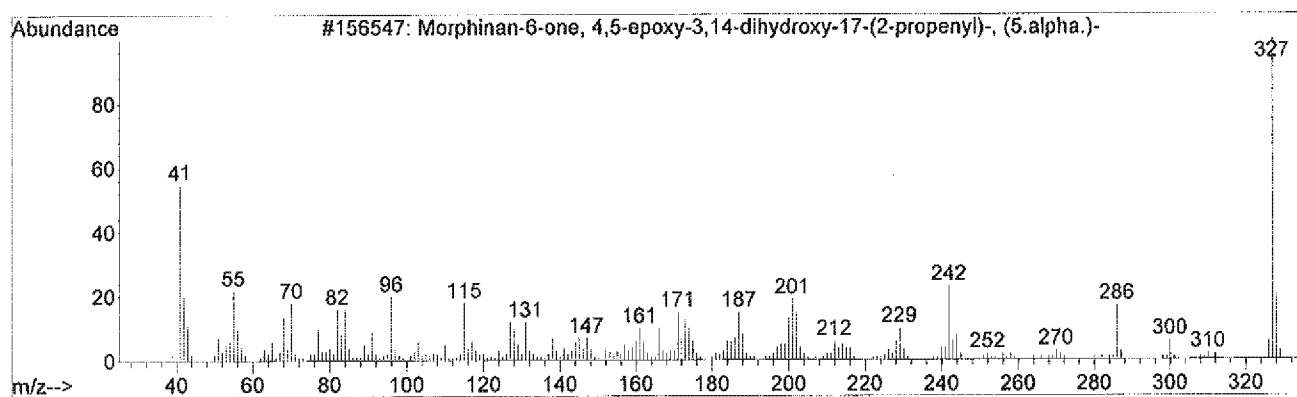#124556: Octadecanoic acid

Information from Data File:
File Name   : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator   : KAC
Date Acquired   : 28 Feb 2012   15:54
Sample Name   : ███████████
Submitted by   : HLL
Vial Number   : 80
AcquisitionMeth: WSCREEN.M
Integrator   : RTE

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
12	10.32	C:\Database\NIST08.L		
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	96
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	70
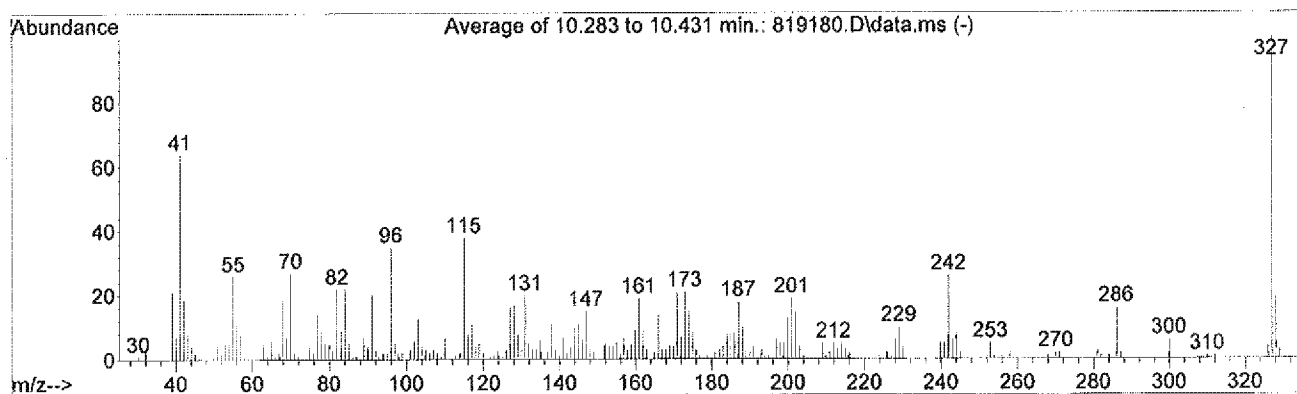
Average of 10.283 to 10.431 min.: 819180.D\data.ms (-)

#156547: Morphinan-6-one, 4,5-epoxy-3,14-dihydroxy-17-(2-propenyl)-, (5.alpha.)-
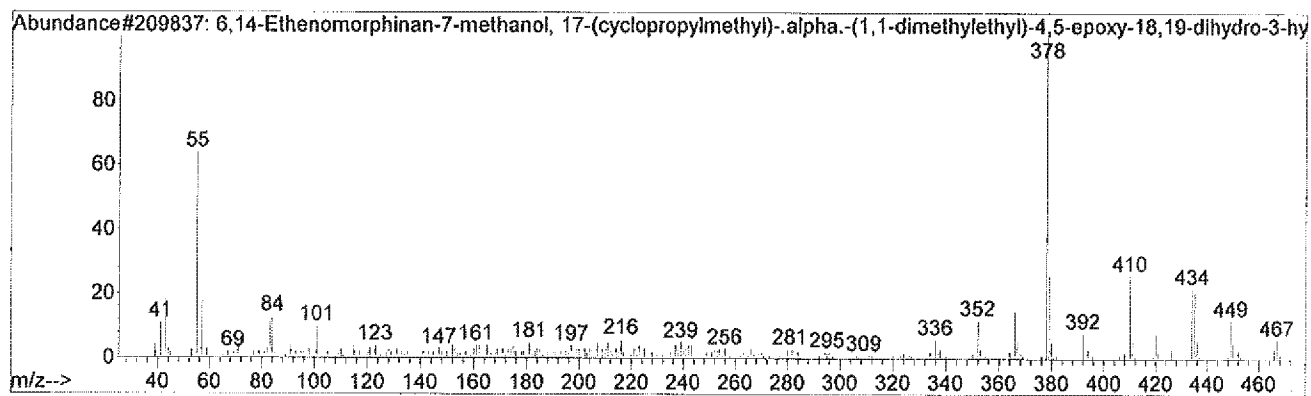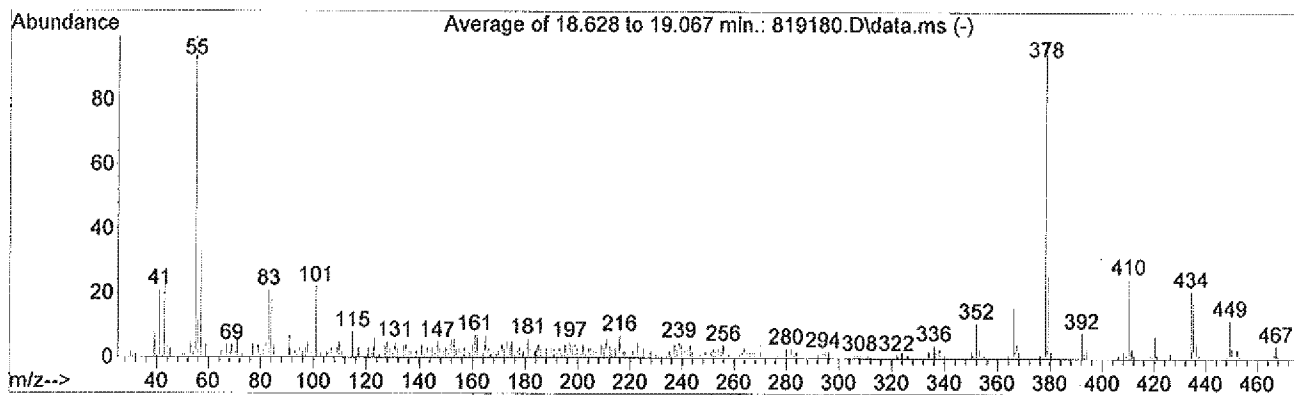
Information from Data File:
```
File Name         : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819180.D
Operator          : KAC
Date Acquired     : 28 Feb 2012   15:54
Sample Name       : ███████████
Submitted by      : HLL
Vial Number       : 80
AcquisitionMeth:  WSCREEN.M
Integrator        : RTE
```

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                     C:\Database\NIST08.L   Minimum Quality: 10
                     C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
13	18.79	C:\Database\NIST08.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	95

Average of 18.628 to 19.067 min.: 819180.D\data.ms (-)

#209837: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-.alpha.-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hy

Area Percent / Library Search Report

Information from Data File:
```
File Name       : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819182.D
Operator        : KAC
Date Acquired   : 28 Feb 2012  17:11
Sample Name     : BLANK
Submitted by    :
Vial Number     :   2
AcquisitionMeth: WSCREEN.M
Integrator      : RTE
```
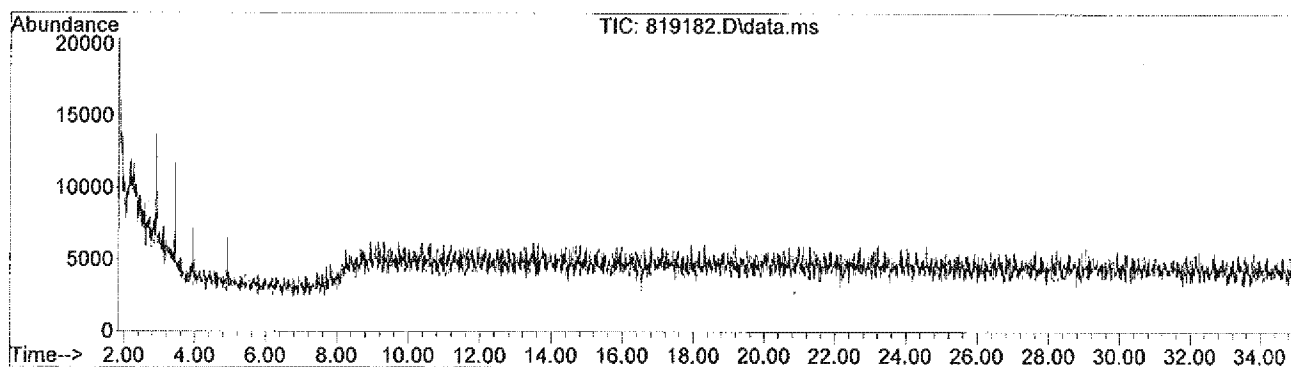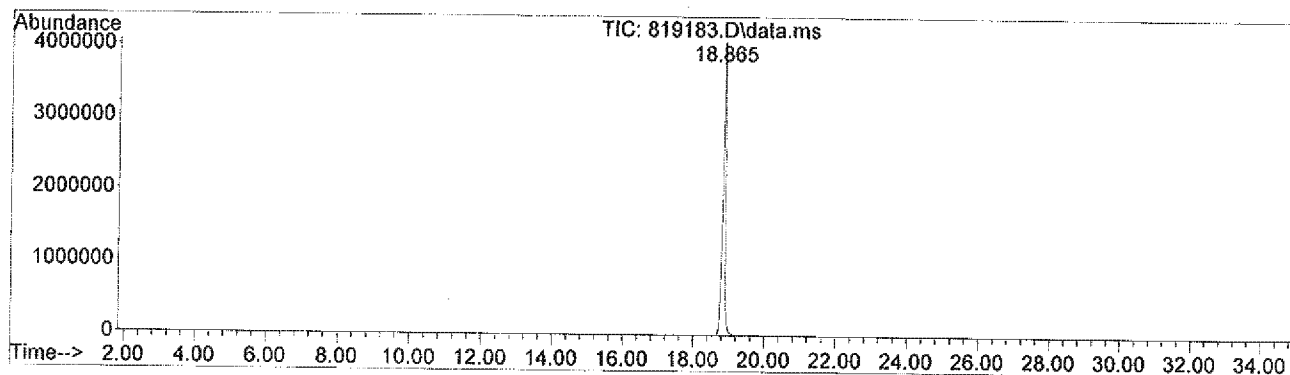

Ret. Time	Area	Area %	Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:
```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819183.D
Operator         : KAC
Date Acquired    : 28 Feb 2012  17:50
Sample Name      : BUPRENORPHINE STD
Submitted by     :
Vial Number      :   74
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```


TIC: 819183.D\data.ms

Ret. Time	Area	Area %	Ratio %
18.865	20884528	100.00	100.00

Information from Data File:
```
File Name        : C:\msdchem\1\DATA\SYSTEM9\02_27_12\819183.D
Operator         : KAC
Date Acquired    : 28 Feb 2012  17:50
Sample Name      : BUPRENORPHINE STD
Submitted by     :
Vial Number      :  74
AcquisitionMeth: WSCREEN.M
Integrator       : RTE
```

Search Libraries: C:\Database\SLI.L   Minimum Quality: 80
                    C:\Database\NIST08.L   Minimum Quality: 10
                    C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	18.87	C:\Database\NIST08.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	99
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	96

Abundance — Average of 18.640 to 19.162 min.: 819183.D\data.ms (-)

Abundance #209837: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-.alpha.-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hy